SCREENING SITE INSPECTION REPORT
FOR
METRO DSPL SYST INC
FAIRMONT CITY, ILLINOIS
U.S. EPA ID: ILD980607204
SS ID: NONE
TDD: F05-8912-090

PAN: FILO417SB

OCTOBER 30, 1991



ecology and environment, inc.

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1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Metro Dspl Syst Inc (Metro) site under contract number 68-01-7347.

The site was discovered in 1970, when Metro Disposal Systems, Inc. (MDSI), submitted an application to the Illinois Environmental Protection Agency (IEPA) for a permit to use the site as a landfill (Ballard 1970).

The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Mary E. Dinkel, IEPA, and is dated April 2, 1985 (U.S. EPA 1985).

FIT prepared an SSI work plan for the Metro site under technical directive document (TDD) F05-8912-090, issued on December 13, 1989. The SSI work plan was approved by U.S. EPA on February 21, 1991. The SSI of the Metro site was conducted on May 8 and 9, 1991, under amended TDD F05-8912-090, issued on March 19, 1991.

The FIT SSI included an interview with site representatives, a reconnaissance inspection of the site, and the collection of eight soil/sediment samples, four monitoring well samples, and two leachate well samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined

preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI (U.S. EPA 1988).

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section presents information obtained from SSI work plan preparation, the site representative interview, and the reconnaissance inspection of the site.

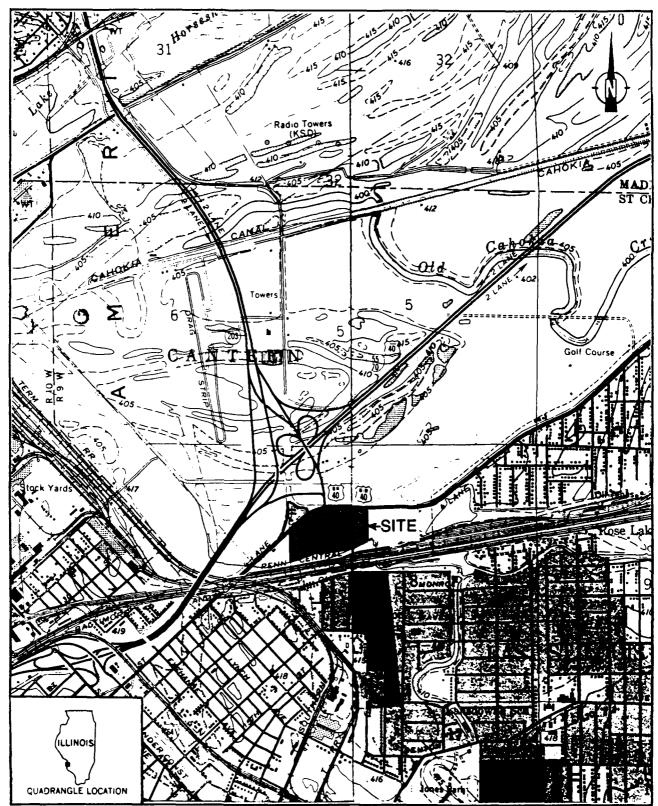
2.2 SITE DESCRIPTION

The Metro site is a currently inactive landfill that operated from 1970 to 1974 (Mensing 1991). The site is approximately 18 acres in size and contains an 8 1/2-acre fill area. The Metro site is located on the south side of Collinsville Road (also known as Route 40), near the intersection of Collinsville Road and Route 203 in Fairmont City, St. Clair County, Illinois (SW1/4NW1/4 sec. 8, T.2N., R.9W.)(see Figure 2-1 for site location). The site is adjacent to wetlands on the west and is bordered by an earthen berm on the east. On the south, an unpaved acces road and railroad tracks separate the site from more populated areas.

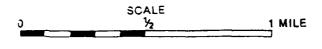
A 4-mile radius map of the Metro site is provided in Appendix A.

2.3 SITE HISTORY

The Metro site is currently owned by Consolidated Rail Corporation (Conrail). Conrail has owned the site since approximately 1978 (Pendergast and Warwick 1991). According to the St. Clair County Tax Assessor's Office, Conrail leased the site to MDSI for use as a sanitary landfill (Smith 1991). However, FIT file information indicates that the landfill closed in 1974. Prior to 1978 the site was owned by Penn Central Railroad Company (Penn Central) and operated by MDSI. Owners and



SOURCE: USGS, Granite City, IL-MO Quadrangle, 7.5 Minute Series, 1954, Photorevised 1968 & 1974; Monks Mound, IL Quadrangle, 7.5 Minute Series, 1954, Photorevised 1968 & 1974.



F-GURE 2-1 SITE LOCATION

operations at the site prior to its use as a landfill in 1970 are not known.

Disposal of wastes at the site began on August 24, 1970, under a permit issued by the Illinois Department of Public Health (IDPH) to MDSI to operate the site (Mensing 1991). MDSI was issued a permit by IDPH to landfill only Phase B of its operation, which consisted of approximately 8 acres. Phase A of the operation never existed (Mensing 1991).

During its operation as a landfill, the site received 20 compactor loads containing 40 cubic yards each of solid wastes and refuse from East St. Louis six days a week (Ballard 1970). The number of transporters of wastes to the landfill, the depth of the trenching operation, and the existence of a liner beneath the fill area are not known. However, a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) section 103(c) Notification of Hazardous Waste Site form, submitted by Anheuser-Busch, Inc., to U.S. EPA on June 9, 1981, indicates that Anheuser-Busch had generated and transported caustic label pulp, a corrosive, to MDSI landfills located in Jefferson Barracks, Missouri, and Fairmont City, Illinois (the Metro site). Approximately 467,000 cubic feet of caustic label pulp was shipped to both locations between August 1968 and February 1973. The exact dates and amounts of wastes that Anheuser-Busch shipped to each landfill are not known (U.S. EPA 1981).

During a routine inspection of the Metro site conducted by IEPA on July 21 and 22, 1971, yellow paint-like liquid, paper pulp, scum, and brown bottle washing liquid were observed in standing water at the site. Investigators documented that leachate was flowing into an on-site drainage ditch that eventually flowed into the Mississippi River (Illinois Pollution Control Board [IPCB] 1973). Similar observations were made by IEPA during routine inspections of the site in December 1971 and in May, July, and December 1972.

In January 1972, MDSI was denied a permit by the IEPA Department of Land Pollution Control (IEPA-DLPC). IEPA-DLPC inspected the Metro site on February 1, 1972, and observed a large hole in the landfill. A large drainage tile was located at the bottom of this hole. MDSI intended to fill this hole and close the Metro site (Child 1972).

IEPA issued an enforcement case with IPCB against MDSI on February 9, 1973, for violations of the Illinois Environmental Protection Act including: failure to provide daily cover of refuse, failure to provide final cover of filled areas, disposal of liquids or hazardous substances at the site, exceeding height limits for a landfill, allowing leachate to flow off-site into public waterways, and operating portions of the landfill without a permit (IPCB 1973). IPCB certified an opinion and order on June 7, 1973, to revoke the permit held by MDSI to operate a landfill at the site. The order stipulated that MDSI would close the site and apply final cover within 90 days from the date of the order and pay a \$2,500 penalty to the state of Illinois for violations of the Illinois Environmental Protection Act. MDSI ceased to accept wastes at the site in approximately summer 1973 and completed closure operations of the site in approximately mid 1974 (Mensing 1991).

Although the Metro site was closed in 1974, Anheuser-Busch's 103(c) notification indicates that an additional 487,000 cubic feet of caustic label pulp wastes was shipped directly to the Metro site by Anheuser-Busch between March 1973 and June 1980 (U.S. EPA 1981). Routine inspections performed by IEPA after 1974 do not indicate any evidence of illegal dumping (Mann and Mensing 1978; McCarthy 1977).

During a routine inspection of the inactive Metro site on February 8, 1977, IEPA observed that the western slope of the site was burning beneath the surface, affecting an area of approximately 375 square yards. The fire was extinguished on February 14, 1977, by the Conrail engineering department, from Indianapolis, Indiana, which used heavy equipment to extinguish the fire and recovered refuse that had been exposed by the operation (McCarthy 1977). The cause of the fire is not known (Mensing 1991).

MDSI installed eight groundwater monitoring wells at the site after closure was completed. The date that these wells were installed is not known. As part of post-closure landfill activities required under the Illinois Environmental Protection Act, MDSI was required to sample these monitoring wells. It is not known whether this sampling was conducted. On June 7, 1978, IEPA completed installation of three additional ground-

On June 7, 1978, IEPA completed installation of three additional ground-water monitoring wells and two leachate monitoring wells at the site and began a one-year sampling program (Nienkerk 1978).

A second incident of a fire burning beneath the site was discovered by IEPA personnel who were passing by the site on August 29, 1978. IEPA observed that the surface vegetation atop the fill area had been burned and that a fire was then burning beneath ground surface. IEPA could not determine the origin of the fire. Conrail was notified of the fire on August 29, 1978, and used a private contractor to excavate, extinguish the fire, and recover the site by November 17, 1978 (Mann and Mensing 1978).

IEPA collected samples from groundwater monitoring wells and leachate monitoring wells in November 1979. Parameters that were tested for included heavy metals, phenols, polychlorinated biphenyls (PCBs), and chlorinated hydrocarbons. Analysis of groundwater monitoring well samples revealed heavy metals, including barium (0.5 ppm), arsenic (0.035 ppm), and manganese (5.5 ppm), as well as PCBs (0.6 μ g/L) (IEPA-DLPC 1979). Results of leachate monitoring well samples for the same time period revealed organic compounds including Dieldrin (0.95 μ g/L), Heptachlor epoxide (0.02 μ g/L), Chlordane (0.96 μ g/L), and PCBs (19.0 μ g/L) (IEPA-DLPC 1979). Analysis forms for leachate monitoring wells do not contain information concerning detection of heavy metals in the leachate samples. It is not known whether other samples, such as upgradient groundwater and surface water samples, were collected during this time period.

Further sampling of on-site leachate monitoring wells for PCBs was conducted by IEPA on April 29, 1982. Analysis of these samples revealed PCBs (1.2 mg/L) (IEPA-DLPC 1982). Analysis of samples collected from groundwater monitoring wells of the same time period revealed PCBs at levels below (0.1 μ g/L) (IEPA-DLPC 1982). An upgradient groundwater monitoring well sample was collected at this time and the levels of PCBs detected were similar to those detected in downgradient and sidegradient samples (IEPA-DLPC 1982).

No other remedial activity concerning the site has been documented.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the Metro site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan with the following exceptions. The original work plan called for the collection of eight soil samples and six monitoring well samples. The work plan called for some of these soil samples to be collected at depths between 2 and 4 feet. All soil samples collected were surface samples. FIT did not collect deep soil samples because FIT believed that surface samples would adequately characterize the site. Four groundwater samples were collected at the Metro site. FIT located only four monitoring wells that could be sampled. FIT found one monitoring well that was bent at its base and therefore could not be sampled. No other monitoring wells could be located. FIT sampled the two on-site leachate wells at the recommendation of IEPA after its review of the work plan.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Metro site is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEW

Ed Belmonte, FIT team leader, conducted an interview with Tom Pendergast, Director of Environmental Affairs for Conrail, and Mark Warwick, Real Estate Manager for Conrail, on May 8, 1991, at 8:20 a.m. at the Metro site, Fairmont City, Illinois. Also present at the interview was Cliff Florczak of FIT. The interview was conducted to gather information that would aid FIT in conducting SSI activities.

3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, FIT conducted a reconnaissance inspection of the Metro site and surrounding area in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The reconnaissance inspection began at 10:35 a.m. and included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined sampling locations during the reconnaissance inspection. FIT was accompanied by the site representatives during the reconnaissance inspection.

Reconnaissance Inspection Observations. The Metro site is located in a sparsely populated area of Fairmont City, Illinois, south of the intersection of Route 203 and Collinsville Road (Route 40) in Fairmont City, Illinois. The general topography in the area of the site is relatively flat.

The Metro site is an approximately 18-acre parcel of land which is covered with thick vegetation. The site is bordered on the north by Collinsville Road, on the east by an earthen berm, on the south by Conrail Railroad tracks and on the west by low-lying wetlands. An abandoned gas station and an abandoned motel are located directly across from the site on the north side of Collinsville Road.

The low-lying wetlands that border the site on the west extend north from the Conrail Railroad tracks to the area of the abandoned gas station.

The western half of the site, approximately 8 1/2 acres, was used for the fill area. The fill area is characterized by its mounded appearance and uneven topography (see Figure 3-1 for site features). The fill area is generally well vegetated although a few areas of stressed vegetation and bare soil do exist. The eastern edge of this fill area slopes sharply toward low-lying wetlands that cover the eastern half of the site. This area is marked by standing water and thick vegetation.

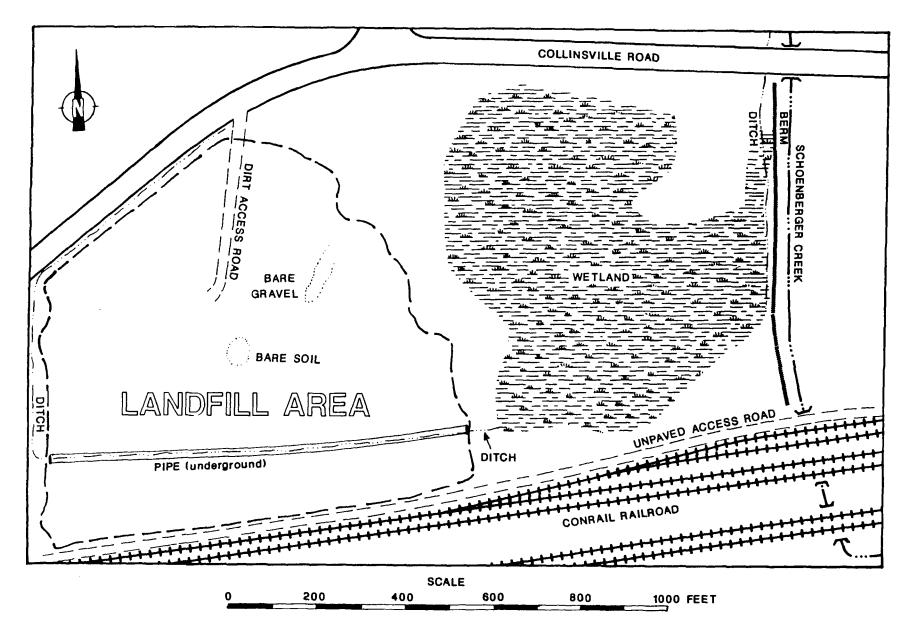


FIGURE 3-1 SITE FEATURES

The north border of the site is formed by Collinsville Road. A drainage ditch extends between Collinsville Road and the north side of the fill area. This ditch flows west, turns south at the northwest corner of the fill area, and extends along the western border of the site. The ditch appears to terminate near the southwest corner of the fill area. A pipe located underneath the landfill allows the water in the drainage ditch to flow underneath the landfill (Child 1972). The ditch reappears on the eastern side of the fill area and then empties into the on-site wetlands on the eastern portion of the site.

Another drainage ditch is located along the eastern edge of the site west of the earthen berm that forms the eastern boundary of the site. East of the berm is an intermittent stream called Schoenberger Creek that flows north underneath a bridge on Collinsville Road. The drainage ditch continues through a culvert beneath the bridge on Collinsville Road and empties into Schoenberger Creek approximately 500 feet northeast of the site.

An unpaved access road extends along the south side of the site, just north of the Conrail railroad tracks.

Access to the site from all boundaries is unrestricted. Primary access to the site is from Collinsville Road via a dirt access road that extends through the center of the fill area. At the time of the SSI, this access road was overgrown with thick vegetation.

FIT photographs from the SSI of the Metro site are provided in Appendix C.

3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U.S. EPA Target Compound List (TCL) compounds or Target Analyte List (TAL) analytes were present at the site. The TCL and TAL are included with corresponding quantitation/detection limits in Appendix D.

On May 8, 1991, FIT collected two leachate well samples and one co-located leachate well sample, and eight soil/sediment samples. On May 9, 1991, FIT collected four monitoring well samples. FIT's offer to provide a portion of the on-site soil/sediment, monitoring well, and leachate samples to the site representative was declined.

<u>Soil/Sediment Sampling Procedures.</u> Seven soil/sediment samples were collected on-site, and one soil sample was collected off-site. Five of these samples were soil samples and three were sediment samples collected from the drainage ditches on-site.

Soil sample S3 was collected from an area of bare soil in the center of the fill area (see Figure 3-2 for on-site soil/sediment sampling locations). This location was selected because of its absence of vegetation. Soil sample S4 was collected from a location at the northeastern edge of the fill area, adjacent to the on-site low-lying wet-Sample S4 was collected from a location where discolored soils and stressed vegetation were observed. Soil sample S5 was collected from the eastern edge of the fill area, approximately 450 feet south of soil sample S4. Sample S5 was collected to determine whether TCL compounds and TAL analytes had migrated from the fill area to the wetlands on-site. Soil sample S6 was collected from a location at the northwest corner of the site alongside the drainage ditch. Sample S6 was collected to determine whether TCL compounds or TAL analytes are migrating from the fill area into the drainage ditch, which flows between the site and the adjacent property, which is occupied by wetlands. Soil sample S8 was collected as a potential background sample from a location approximately 700 feet east of the site (see Figure 3-3 for off-site soil sampling location). Sample S8 was collected from an area that appeared to be undisturbed to determine the representative chemical content of soils in the vicinity of the site.

Sediment samples S1 and S2 were both collected from the drainage ditch located along the west edge of the berm on the site's east side to determine whether TCL compounds or TAL analytes could potentially migrate via surface water from the fill area to the berm. Sediment sample S1 was collected in the drainage ditch from a location approximately 300 feet north of the railroad tracks. Sediment sample S2 was collected in the drainage ditch from a location approximately 200 feet south of Collinsville Road. Sediment sample S7 was collected from the northwestern corner of the site in the drainage ditch located along the northern edge of the fill area. Sample S7 was collected in order to determine whether TCL compounds or TAL analytes had migrated from the fill area to the drainage ditch.

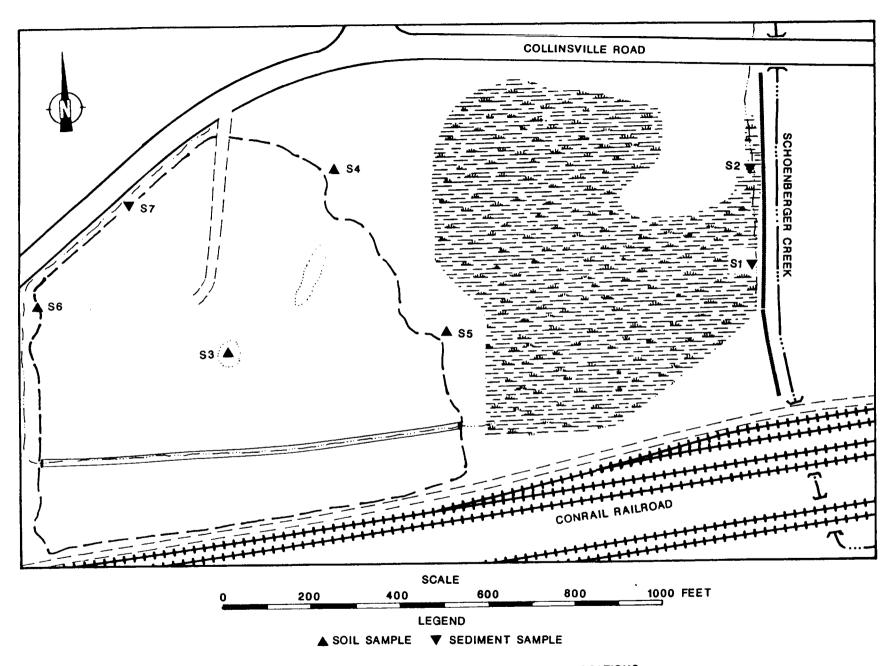


FIGURE 3-2 ON-SITE SOIL/SEDIMENT SAMPLING LOCATIONS

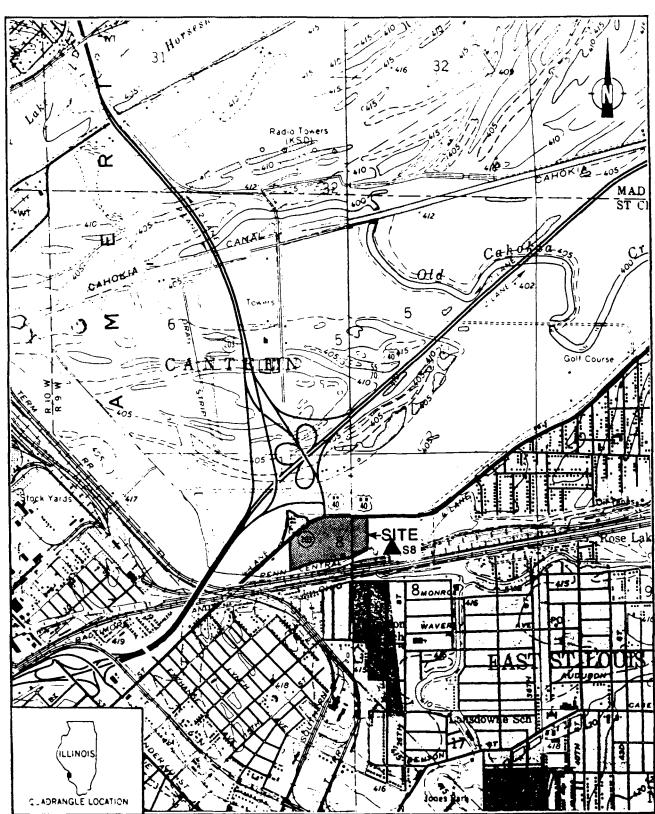
All soil/sediment samples were grab samples collected at depths no greater than 6 inches. Material for each surface sample was collected with a stainless steel spoon and a hand trowel. The sample portions collected for volatile organic analysis were transferred directly to sample bottles. The remaining sample portions were placed into a stainless steel bowl, mixed, and then transferred to the appropriate sample bottles, using a stainless steel spoon or a hand trowel (E & E 1987).

Standard E & E decontamination procedures were adhered to during the collection of all soil/sediment samples. The procedures included the scrubbing of all equipment (e.g., trowel, stainless steel spoons, and bowl) with a solution of detergent (Alconox) and distilled water, and triple-rinsing the equipment with distilled water before the collection of each sample (E & E 1987). All soil/sediment samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, all soil/sediment samples were analyzed using the U.S. EPA Contract Laboratory Program (CLP).

Monitoring Well Sampling Procedures. Five monitoring wells were observed on-site. A pair of nested monitoring wells (one shallow [MW3] and one deep [MW1]), is located in the southeast corner of the site. Another pair of nested wells is located at the northeast corner of the site. The deeper of this pair, monitoring well (MW4), was sampleable. However, FIT discovered that the casing of the shallow groundwater monitoring well (G14S) was bent at its base. The fifth monitoring well, MW2, is located approximately 100 feet from the edge of the fill area in the wetlands. FIT could not find the other six monitoring wells that IEPA indicated were present at the site.

Monitoring well samples MW1 and MW3 were collected from on-site monitoring wells located in the southeast portion of the site (see Figure 3-3 for monitoring well sampling locations). Monitoring well sample MW2 was collected from a monitoring well located in the southcentral portion of the site Samples MW1, MW2, and MW3 were collected in order to determine whether TCL compounds and TAL analytes were migrating to groundwater. It is assumed that local groundwater flow is in the direction of wetlands located east and west of the fill area. Regional groundwater flow is assumed to flow westerly toward the Mississippi River, however, no groundwater samples were collected on the western



SOURCE: USGS, Granite City, IL-MO Quadrangle, 7.5 Minute Series, 1954, Photorevised 1988 & 1974; Monks Mound, IL Quadrangle, 7.5 Minute Series, 1954, Photorevised 1968 & 1974.

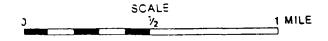


FIGURE 3-3 OFF-SITE SOIL SAMPLING LOCATION

side of the landfill because no wells could be located in this area. Monitoring well MW2 was sampled because of its proximity to the fill area. A potential upgradient sample was collected from monitoring well MW4 because it is the deepest monitoring well and is located the farthest distance from the fill area. The monitoring wells were locked and capped and appeared to be in good condition at the time of the SSI. Well depth and depth to water measurements were collected by FIT during the SSI (see Table 3-1 for monitoring well data).

In accordance with U.S. EPA quality assurance/quality control (QA/QC) requirements, a duplicate monitoring well sample and a field blank sample were collected. The duplicate sample was collected at location MW1. The field blank sample was prepared from distilled water.

All groundwater monitoring wells were purged of three to five volumes of standing water prior to the collection of each sample. The samples for volatile organic analysis were collected first. All groundwater monitoring well samples were collected with stainless steel bailers that had been scrubbed with a solution of detergent (Alconox) and distilled water, and triple-rinsed with distilled water prior to the collection of each sample (E & E 1987).

As directed by U.S. EPA, all groundwater monitoring well samples were analyzed using the U.S. EPA CLP.

Leachate Well Sampling Procedures. Leachate well samples LW1 and LW2 were collected from on-site leachate monitoring wells to determine whether TCL compounds and TAL analytes were present in leachate beneath the landfill (see Figure 3-4 for leachate well sampling locations). Sample LW1 was collected from a leachate well located near the southwest corner of the fill area, approximately 100 feet north of the railroad tracks. Sample LW2 was collected from a well near the northeast corner of the fill area, approximately 400 feet south of Collinsville Road. Leachate well depths and depths to leachate measurements were not collected by FIT during the SSI. The leachate wells that were sampled were locked and capped and appeared to be in good condition at the time of the SSI.

In accordance with U.S. EPA quality assurance/quality control (QA/QC) requirements, a duplicate leachate well sample and a field blank sample were collected on each day of sampling. The duplicate sample was

Table 3-1
MONITORING WELL DATA*

FIT Well Designation	IEPA Well Designation	Well Depth (feet)	Depth to Water (feet)
MW1	G15D	43.7	11.2
MW2	G607	20.0	3.5
MW3	G15S	17.6	4.4
MW4	G14D	57.3	9.6

^{*} Top of Casing could not be determined because no well logs are available for the monitoring wells.

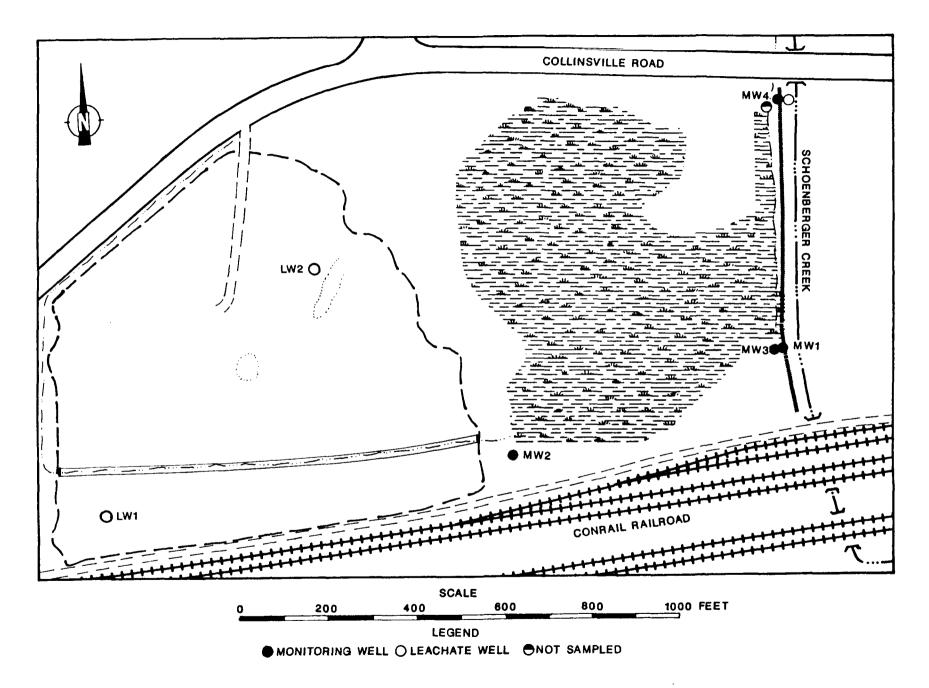


FIGURE 3-4 MONITORING AND LEACHATE WELL LOCATIONS

collected at location LW1. A co-located sample (designated LW2A) was collected and submitted for a partial analysis. Only analysis for TCL compounds was conducted on this additional sample. The field blank sample was prepared from distilled water.

Leachate monitoring wells were not purged of three to five volumes of standing leachate prior to the collection of each sample. All leachate monitoring well samples were collected with stainless steel bailers that had been scrubbed with a solution of detergent (Alconox) and distilled water, and triple-rinsed with distilled water prior to the collection of each sample (E & E 1987). Volatile organic samples were collected first.

As directed by U.S. EPA, all leachate monitoring well samples were analyzed using the U.S. EPA CLP.

4. ANALYTICAL RESULTS

This section presents results of the chemical analysis of soil/sediment, monitoring well, and leachate well samples collected by FIT during the SSI of the Metro site. All samples except leachate well samples LW1 and LW2A were analyzed for volatile organics, semivolatile organics, pesticides/polychlorinated biphenyls (PCBs), metals, and cyanide. Leachate well sample LW1 was not analyzed for volatile or semivolatile organics; leachate well sample LW2A was submitted only for organics and pesticides/PCBs analysis. Complete chemical analysis results of FIT-collected soil/sediment and leachate and monitoring well samples are provided in Tables 4-1 and 4-2.

Quantitation/detection limits used in the analysis of FIT-collected soil/sediment and leachate well and monitoring well samples are provided in Appendix D.

The analytical data from the chemical analysis of FIT-collected samples for this SSI have been reviewed under the direction of U.S. EPA for validity; the review has been approved by U.S. EPA. The analytical data have also been reviewed by FIT for usability. Any additions, deletions, or changes resulting from review of the data have been incorporated in the chemical analysis results tables presented in this section.

Table 4-1 (Cont.)

Sample Collection Information				Sample Numb	190			
nd Parameters	\$1	S2	\$3	S4	\$5	56	S7	\$8
dius	2718	306B	75.08	390B	990B	924B	4798	123B
allium		0.47B		~-	0.43B			0.30B
nadium	35.4	39.1	23.7	22.3	42.7	31.7	24.7	30.4
.nc	190	622	3 33	120	686	288	526	134

⁻⁻ Not detected.

COMPOUND QUALIFIERS

DEFINITION .

J

Indicates an estimated value.

This flig identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods.

This flag identifies all compounds identified in an analysis at a secondary dilution factor.

ANALYTE QUALIFIEKS

DEFINITION

Analysis by Method of Standard Additions.

Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data mayabe biased high or low. See spike results and laboratory narrative.

Duplicate value outside QC protocols which indicates a possible matrix problem.

Value is real, but is above instrument DL and below CRDL.

Value is above CROL and is an estimated value because of a OC protocol.

Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.

INTERPRETATION

Compound value may be semiquantitative.

Compound value may be semiquantitative. There should be another analysis with a D qualifier, which is to to be used.

Alerts data user to a possible change in the CROL. Data is quantitative.

INTERPRETATION

Value is quantitative.

Value may be quantitative or semiquantitative.

Value may be quantitative or semiquantitative.

Value may be quantitative or semiquantitative.

Value may be semiquantitative.

Value may be semiquantitative.

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL SAMPLES
FOR THE METRO SITE SSI

ample Collection Information				Sampi	le Number			
od Parameters	SI	S2	S3	S 4	\$5	36	57	88
ite	5/8/91	5/8/91	5/8/91	5/8/91	5/8/91	5/8/91	5/8/91	5/8/9]
90	1230	1245	1250	1300	1320	1503	1500	1345
P Organic Traffic Report Humber	ES387	ES388	ES389	ES390	ES391	EHW88	ehw89	EHU90
F Inorganic Traffic Report Number	нена93	HEHA94	нена95	HEHA96	MEHA97	нена98	NEHA99	HELP98
empound Detected values in µg/kg)								
latile <u>Organics</u>			*					
thylene chloride		150 J	<u> </u>				6 80 D	
etone	120	52	30		230-	- 350	1,1001	- -
rbon disulfide	5]	.*4	33			6J	-1-1	4 J
-butanone (MEK)	,			• •			4300	
nzene			- -	·	73			
luene	21.				4 4J	4.1	<u> </u>	. 2J
lorobenzene			· · · ·	- -	2,500E	100		
nivolatile Organica	4.0			٠. نا			en e	
uor anthene					·		1,200J	
rene				,		•	970J	
11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		er i i i i i i i i i i i i i i i i i i i). 	+ 4
esticides/PCBs			4.6	-				. •
eldrin			44	- 				~-
nalyte efected						مد دم		
values in 1971a) is			•				the second second	
lypinum	14.000	18,600	10,100	11,500	22,300	15,600	7,650	13,100
	5.lNj	8.3NJ	- 4.5NJ	11.9NsJ	7.1NJ	5.2NJ -	5.8NJ	9.2Ns
	. 159★	591*	193★	223 1	403₺	323 1	333*	2414
eryll ru	1.38J	1.6BJ	0.63BJ	0.75BJ	1.9BJ	1.18J	0.57BJ	1.11
adaius	_ :2.91	10.1.	4.3		14.6	2.9J	6.9	3.33
alcius	7.7.240	7,260	4,690	16,400	9,930	34,100	27,300	13,600
The second secon	3.5		25.8	22.0	32.0	27.6	78.2	22.4
opalt	10.98	10.68	6.78	9.3k	11.4B	7.7B	6.3B	9.9
npper	21.7	46.5	31.1	22.1	91.2	34.2	54.4	25.2
**************************************	22,800	36,100	17,900	35,900	31.900	41,000	16,700	21,500
ead	75.7ksJ	125ÅJ	105 k J	29.5±3	109 k J	66.4+J	<u>28</u> 4∔J	60.1*
agnesium	5,360	4.670	3,050	4,910	6.000	5,490	4,490	6,500
anganese	214	381	125	411	479	435	255	605
ercnry		0.46	0.20					
ickel	26.1	27.4	21.0	28.8	47.7	32.1	21.1	28.8
otassium	2,780	3,470	1,910	2,710	4,210	3,660	1,500B	3,050
								0.000

±

Table 4-2

RESULTS OF CHEMICAL ANALYSIS OF

FIT-COLLECTED MONITORING WELL SAMPLES

FOR THE METRO SITE SSI

Sample Collection Information			Sam	ple Number		
and Parameters	MW1	Duplicate	MW2	MW3	MW4	Blank
Date	5/9/91	5/9/91	5/9/91	5/9/91	5/9/91	5/9/91
Cime	1130	1130	1020	1230	1200	1300
rganic Traffic Report Number	EKX66	EHW94	EMN98	EHW91	EHW9 2	EJW99
norganic Traffic Report Number	MELP99	MELT96	MELT91	MELT92	MELT93	MELT97
Cemperature (°C)	13	13	14	15	15	1.8
Specific Conductivity (µmhos)	1,334	1,334	4,520	1,326	799	8.13
Н	6.08	6.08	6.27	6.6	7.09	6.71
ompound Detected						
values in $\mu g/L$)						
olatile Organics						
hloroform						4 J
oromodichloromethane						3J
ibromochloromethane						2.J
enzene			10			
hlorobenzene			120			
emivolatile Organic†						
nalyte Detected						
values in ug/L)						
ntimony	45.2B		73.4	44.5B		
rsenic	2.4BWJ		15.1J	2.2BJ	6.4BJ	
arium	101B	98.0B	549	235	50.0B	
eryllıum	_	1.3BJ				
alcium	162,000	157,000	368,000	152,000	80,400	13,400
obalt	- -	5.7B	6.7B			
opper		6.1BJ			13.3BJ	7.1BJ
ron	20.88		39,200	5,600	24.4B	

Table 4-2 (Cont.)

Sample Collection Information	Sample Number						
and Parameters	MW1	Duplicate	MW2	EWM	MW4	Blank	
ead			1.4B	1.5BW	1.3B		
nagnesium	33,600	31,900	113,000	28,800	27,300	3,8108	
manganese	335	323	2,320	1,080	4.8BJ	1.8BJ	
nickel	27.7B	22.5B	50.0				
ootassium	4,920BJ	4,470BJ	30,100J	7,350J	5,250J	13,000	
elenium .	1.5BNWJ						
sodium	38,000	37,100	199,000	29,800	14,900J	3,710B	
anadium	4.0BJ					- -	
zinc	18.4BJ	22.6J	12.3BJ	15.4BJ	142	6.7B	

⁻⁻ Not detected.

⁺ The semivolatile analysis results for sample MW1 are deemed unusable (R).

Table 4-2 (Cont.)

COMPOUND QUALIFIERS	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.
R	Results are unusable due to a major violation of QC protocol.	Compound value is not usable.
ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi- quantitative.
В .	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi- quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol	Value may be semiquantitative.
W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.

Table 4-3
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED LEACHATE WELL SAMPLES
FOR THE METRO SITE SSI

Sample Collection Information			Sample Numbe	<u>r</u>	
and Parameters	LW1	Duplicate	LW2	LW2A+	Blank
Date	5/8/91	5/8/91	5/8/91	5/8/91	5/8/91
rime	1645	1645	1600	1600	1630
CLP Organic Traffic Report Number	EKF57	EHM03	EHM02	EHM02	EHM04
CLP Inorganic Traffic Report Number	MELT98	MEKNO2	MELT99	+	MEKNO3
Compound Detected					
values in $\mu g/L)$					
Volatile Organics					
methylene chloride	NR	12,000B	4,100B	1,300D	
acetone	NR		6,400J	2,600BD	
2-butanone (MEK)	NR		3,400	4,100JD	
l,1,1-trichloroethane	NR	1,200J			
penzene	NR	6,500			
1-methyl-2-pentanone	NR		10,000J	6,600DJ	
coluene	NR		1,800	1,200D	
chlorobenzene	NR	140,000			
Semivolatile Organics	NR	++	++	++	++
Pesticides/PCBs					
Aroclor 1242	130	36			
Analyte Detected					
(values in µg/L)					
aluminum			14,600		
antimony	30.2B		31.8B		
arsenic	3.3BWJ	1.2BJ	16.5J		
parium	469	464	1,220		
peryllium			2.1B		

Table 4-3 (Cont.)

ample Collection Information	Sample Number				
nd Parameters	LW1	Duplicate	LW2	LW2A+	Blank
alcium	138,000	138,000	138,000		
hromium			47.1		
obalt	6.3B	5.9B	13.2B		~
opper			119		23.5BJ
ron	4,230	3,650	67,500		~-
e a d	4.1	2.3B	108		
agnesium	69,800	68,300	56,400		
anganese	183	185	609		
ercury			0.53		
ickel		13.0B	74.2		
otassium	79,100	78,000	65,100		
ilver		5.6B			
odium	253,000	249,000	120,000		102BJ
andium			26.5B		
inc	7.1BJ	11.7BJ	406		

⁺ Sample LW2A was analyzed only for organics and pesticides/PCBs.

⁻⁻ Not detected.

NR Analysis for volatile and semivolatile organics was not performed for samples LW1.

 $[\]uparrow \uparrow$ The semivolatile analysis results for the duplicate, samples LW2 and LW2A, and the blank are deemed unusable (R).

Table 4-3 (Cont.)

COMPOUND	ND QUALIFIERS DEFINITION		INTERPRETATION		
J		Indicates an estimated value.	Compound value may be semiquantitative.		
В		This flag is used when the compound is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semiquantitative if it is <5x the blank concentration (<10x the blank concentrations for common laboratory artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone).		
D		This flag identifies all compounds identified in an analysis at a secondary dilution factor.	Alerts data user to a possible change in the CRQL. Data is quantitative.		
R		Results are unusable due to a major violation of QC protocol.	Compound value is not usable.		
ANALYTE QU	UALIFIERS	DEFINITION	INTERPRETATION		
В		Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi- quantitative.		
J		Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.		
W		Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.		

DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section presents discussions of data and information pertaining to potential migration pathways and targets of TCL compounds and TAL analytes that are possibly attributable to the Metro site. The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

5.2 GROUNDWATER

The analysis of FIT-collected leachate well samples indicated the presence of TCL compounds and TAL analytes including toluene in LW2 (1,800 μ g/L); acetone in LW2 (6,400J μ g/L); methylene chloride in LW2 (4,100B μ g/L); 4-methyl-2-pentanone in LW2 (10,000J μ g/L); Aroclor 1242 in LW1 (130 μ g/L); antimony in LW2 (31.8B μ g/L); and arsenic in LW2 (16.5J μ g/L) (see Table 4-2 for definition and interpretation of qualifiers).

The analysis of FIT-collected downgradient monitoring well samples revealed TCL compounds and TAL analytes including chlorobenzene (120 μ g/L), benzene (10 μ g/L), manganese (2,320 μ g/L), arsenic (15.1J μ g/L), and antimony (73.4 μ g/L), all in MW2.

These were all detected at levels above those of potential upgradient sample MW4. The chlorobenzene and antimony may be attributable to the site based on the following information.

• Chlorobenzene and antimony were not detected in the upgradient monitoring well sample.

- Chlorobenzene was detected in on-site leachate well LW1 at 140,000 µg/L.
- Antimony was detected in on-site leachate well LW2 at 31.8B $\mu g/L$).

However, attribution cannot be conclusively established at this time because no monitoring wells could be found on the northwest side of the site between the abandoned gas station and the landfill and because groundwater flow in the immediate area is suspected to be to the east and west toward the wetlands on either side of the site, therefore it is difficult to identify an upgradient well.

The analysis of FIT-collected soil samples revealed TCL compounds and TAL analytes including chlorobenzene in samples S5 (2,500E $\mu g/kg$) and S6 (100 $\mu g/kg$), Dieldrin (44 $\mu g/kg$) in S3, and mercury in S3 (0.20 mg/kg) (see Table 4-1 for definition and interpretation of qualifiers). These TCL compounds and TAL analytes appear to be attributable to the site based on the following information.

- Chlorobenzene and mercury were detected in leachate within the fill area.
- Past inspections performed by IEPA revealed many noncompliances and violations of the Rules and Regulations for Refuse Disposal Sites and Facilities, including disposal of liquids or hazardous substances (IPCB 1973).
- Past sampling of leachate wells by IEPA detected the presence of Dieldrin (IEPA-DCPC 1979).

A potential exists for TCL compounds and TAL analytes to migrate from the site to groundwater in the area of the site based on the following information.

 There is no indication that the site has an engineered liner.

- TCL compounds and TAL analytes were detected in samples collected from on-site leachate wells, monitoring wells, and soils.
- Arsenic was detected in leachate wells and monitoring wells on-site.

The potential for TCL compounds and TAL analytes to migrate from the site to groundwater is also based on the following geologic information. The Metro site lies near the base of an abandoned channel of the Mississippi River in the broad Mississippi River valley. The geology of the site area consists of recent valley-fill alluvium, glacial outwash alluvium, and bedrock. The recent valley-fill alluvium has been deposited by the meandering and periodic flooding of the Mississippi River (USGS 1954, 1954a). These unconsolidated deposits consist of interfingering bodies of gravel, sand, silt, and clay that were formed as channel lag, point bars, crevasse-splay, floodplain, and slough or oxbow lake deposits (Reineck and Singh 1980; see Appendix B for well logs of the area of the site).

Glacial outwash deposits of both Illinoian and Wisconsinan ages underlie the recent alluvium. These older deposits and the recent alluvium both constitute the total thickness of valley-fill material which was likely deposited as an uninterrupted sequence (Southwestern Illinois Metropolitan and Regional Planning Commission [SIMRPC] 1983). Well logs in the area of the site indicate that the thickness of the valley-fill material ranges from approximately 115 to 265 feet. These well logs also indicate that the deposits are generally very coarse, and as large as boulders near the base. Near the site, the valley-fill deposits overlie shale of Carboniferous age. More regionally, this shale is a minor part of massive limestone and dolomite units known as the Lower Chesterian Series (SIMRPC 1983; Appendix E). Because the bedrock is of low permeability and has poor water quality with depth, the bedrock does not constitute an important aquifer in the area (Schicht 1965).

The principle aquifer in the site area is the unconsolidated valley-fill material and this material is considered to be the aquifer

of concern (AOC). Well logs from the site area indicate that local wells are screened primarily in sand and gravel units in the unconsolidated deposits at relatively shallow depths and groundwater is drawn from sand and gravel deposits within the valley-fill. According to area well logs, the depth to groundwater in the area of the site is as shallow as 11 feet below the ground surface.

Regional groundwater flow in the area of the site is to the westsouthwest toward the Mississippi River but may deviate from this locally because of the presence of wetlands to the east and west of the site.

Most of the population within a 3-mile radius of the site obtains its drinking water from Illinois-American Water Company, which draws its water from the Mississippi River more than 3 miles upstream from the site (Roe 1987).

Outside of the Illinois-American Water Company water supply area and the Mound Public Water Supply, which is located approximately 4 miles northeast of the site, approximately 375 persons obtain drinking water from private wells within the 3-mile radius of the site, and are therefore potential targets for groundwater contamination. This population was determined by counting houses on United States Geological Survey (USGS) topographic maps of the area (USGS 1954, 1954a, 1954b, 1954c), 105 and 30, for Madison County and St. Clair County, respectively, and multiplying by the 1980 Census averages of 2.75 persons per household for Madison County and 2.89 persons per household for St. Clair County (U.S. Bureau of the Census 1982). The nearest drinking water well is located approximately 1/4 mile north of the site.

According to the University of Illinois Cooperative Extension Service, there are also approximately 400 acres of farmland within a 3-mile radius of the site that are irrigated with groundwater (Hardiman 1985).

5.3 SURFACE WATER

The drainage ditch that extends along the berm on the east border of the site empties into Schoenberger Creek located 150 feet east of the berm. Schoenberger Creek empties into a nameless river located approximately 1/4 mile northwest of the site which drains into the Cahokia Canal located approximately 1 1/2 miles northwest of the site.

No surface water samples were collected during the SSI of the Metro site. However, on-site sediment samples (S1 and S2) were collected from the drainage ditch that extends along the eastern edge of the site. TCL compounds and TAL analytes were detected in sediment samples including acetone (1,100D), fluoranthene (1,200J), and chromium (78.2 mg/kg) in S7, and mercury (0.46 mg/kg) and cadmium (10.1 mg/kg) in S2. These are not attributable to the site because no background sediment sample was collected.

A potential exists for TCL compounds and TAL analytes to migrate from the site to surface water in the area of the site based on the following information.

- Mercury was detected in FIT-collected sediment samples from the drainage ditch on-site. Mercury was also detected in leachate well LW2 at 0.53 mg/L.
- TCL compounds and TAL analytes were detected in on-site sediment samples at concentrations above those of the background soil sample, including fluoranthene in S7 (1,200J µg/kg) and pyrene (970J µg/kg) in S7.
- Leachate seeps have been documented to have flowed off-site into surface waterways (IPCB 1973).
- Wetlands are located on-site and adjacent the west border of the site.
- The drainage ditch on-site empties into Schoenberger Creek approximately 500 feet northeast of the site.
- The site is located in a 100-year floodplain.

No surface water intakes are located within 3 miles downstream of the site. It is not known whether the unnamed river or Cahokia Canal is currently used. The Mississippi River is used for recreational and commercial purposes (Tri Cities Area Chamber of Commerce 1991).

5.4 ATR

A release of TCL compounds or TAL analytes to the air at the Metro site was not documented during the SSI of the Metro site. During the reconnaissance inspection, FIT site-entry instruments (OVA 128, combination oxygen meter and explosimeter, and hydrogen cyanide monitor) did not detect levels that deviated from background concentrations at the site, with the exception of methane. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

A potential does not exist for TCL compounds and TAL analytes to migrate from the site via windblown particulates, based on the following information.

- The site is generally well vegetated.
- The site is located in a swampy area that would inhibit dusty conditions.

5.5 FIRE AND EXPLOSION

According to federal, state, and local file information reviewed by FIT, and an interview with Bob Belba, Fairmont City Fire Chief, no documentation exists of an incident of fire or explosion at the site since approximately 1982 (Belba 1991). According to state documentation, fires have occurred beneath the ground surface of the site in February 1977, and August 1978 (McCarthy 1977; Mann and Mensing 1978). The cause of these fires is not known (Mensing 1991). FIT site-entry equipment readings did not indicate a potential for fire or explosion at the site at the time of the SSI.

However, because no safety precautions have been taken to prevent further fires at the site, a potential for fire and/or explosion at the site does exist. This potential is based on the following information.

- Past fires have occurred beneath the ground on-site (McCarthy 1977; Mann and Mensing 1978).
- Flammable liquids, toluene and chlorobenzene, were detected in FIT-collected leachate samples.

• Fairmont City Fire Chief Bob Belba indicated that a fire could possibly occur on-site (Belba 1991).

The population within a 2-mile radius of the site potentially affected by a fire or explosion is 17,654 persons. This population was calculated by counting houses within a 2-mile radius of the site on USGS topographic maps (USGS 1954, 1954a, 1954b, 1954c) and multiplying this number by persons-per-household values of 2.89 for St. Clair County and 2.75 for Madison County, Illinois (U.S. Bureau of the Census 1982).

5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, observations made during the SSI, and the interview with the site representatives, no incidents of direct contact with TCL compounds or TAL analytes at the Metro site have been documented.

There is a potential for the public to come into contact with TCL compounds and TAL analytes at the site. This potential is based on the following information.

- Access to the site is unrestricted.
- Flow of leachate off-site was documented in 1971 and 1972 (IPCB 1973; Becker 1971).
- Surface soil samples indicate the presence of TCL compounds and TAL analytes.

The population within a 1-mile radius of the site potentially affected through direct contact with TCL compounds and TAL analytes at the Metro site is 6,505 persons. The nearest resident is approximately 350 feet south of the site. This population was calculated by counting houses within a 1-mile radius of the site and multiplying this number by a persons-per-household value of 2.89 for St. Clair County, Illinois (USGS 1954, 1954a, 1954b, 1954c; U.S. Bureau of the Census 1982).

6. REFERENCES

- Ballard, Richard, October 7, 1970, Sanitary Inspector, IEPA, Inspection Report of Metro Disposal site, Fairmont City, Illinois.
- Belba, Bob, September 30, 1991, Fire Chief, Fairmont City, Illinois, telephone conversation, contacted by Mark Wheeler of FIT.
- Becker, James A., August 9, 1971, MDSI, letter, to C. E. Clark, Chief, IEPA-DLPC, Re: IEPA inspection of Metro site in July 1971.
- Child, William, February 3, 1972, IEPA, interoffice correspondence, to C. E. Clark, DLPC.
- E & E, 1987, Quality Assurance Project Plan Region V FIT Conducted Site Inspections, Chicago, Illinois.
- Hardiman, Mike, September 27, 1985, University of Illinois, Cooperative Extension Service, St. Clair County, telephone conversation, contacted by Kevin Shrosky of FIT.
- IPCB, June 7, 1973, Order and Opinion of the Board, Environmental Protection Agency v. Metro Disposal Systems, Inc., PCB 73-59.
- IEPA-DLPC, November 13 and 14, 1979, Special Analysis Form, for monitoring wells G607, G14S, L401, Metro Site, Fairmont City, File No. 16305001.

- ______, April 29, 1982, Special Analysis Forms, for monitoring wells G107, G15D, Metro Site, Fairmont City, File No. 16305001.
- Mann, P. C., and Ken Mensing, November 27, 1978, IEPA-DLPC Inspection Report, Site Inventory No. 16305001, for the Metro site, Fairmont City, Illinois.
- McCarthy, P. M., February 14, 1977, FOS Manager, IEPA, Southern Region, letter, to IEPA Division File on Metro site, Fairmont City, Illinois.
- Mensing, Ken, September 12, 1991, Regional Manager, IEPA-DLPC, Collins-ville, Illinois, telephone conversation, contacted by Ed Belmonte of FIT.
- Neinkerk, Monte, June 7, 1978, IEPA, memorandum, to Metro site file.
- Pendergast, Tom, and Mark Warwick, May 8, 1991, Director of Environmental Affairs and Real Estate Manager, respectively, Conrail, site representative interview, conducted by Ed Belmonte of E & E.
- Reineck, H. E. and I. B. Singh, 1980, <u>Repositional Sedimentary Environments</u>, 2nd Edition, Springe-Verbig, Berlin.
- Roe, Ron, November 25, 1987, Production Supervisor, Illinois-American Water Company, telephone conversation, contacted by Gary Cobb of E & E.
- Schicht, R. J., 1965, Groundwater Development in East St. Louis Area, Illinois, Illinois State Water Survey, Urbana, Illinois.
- Smith, Sue, September 17, 1991, St. Clair County Tax Assessor's Office, Belleville, Illinois, telephone conversation, contacted by Mark Wheeler of E & E.

- SIMRPC, 1983, A Summary of Information Related to the Comprehensive

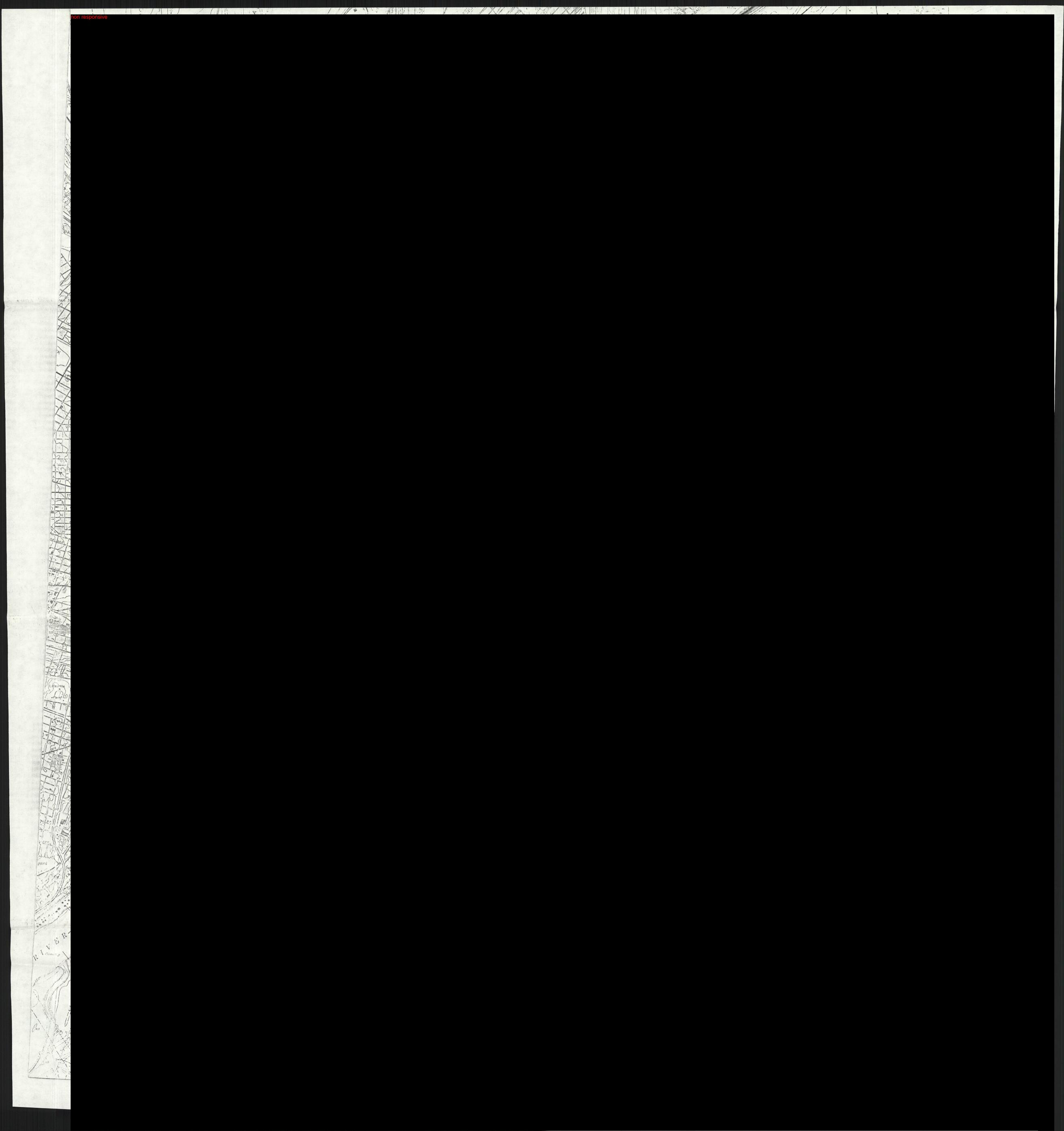
 Management of Groundwater Resources in Madison, Monroe, and

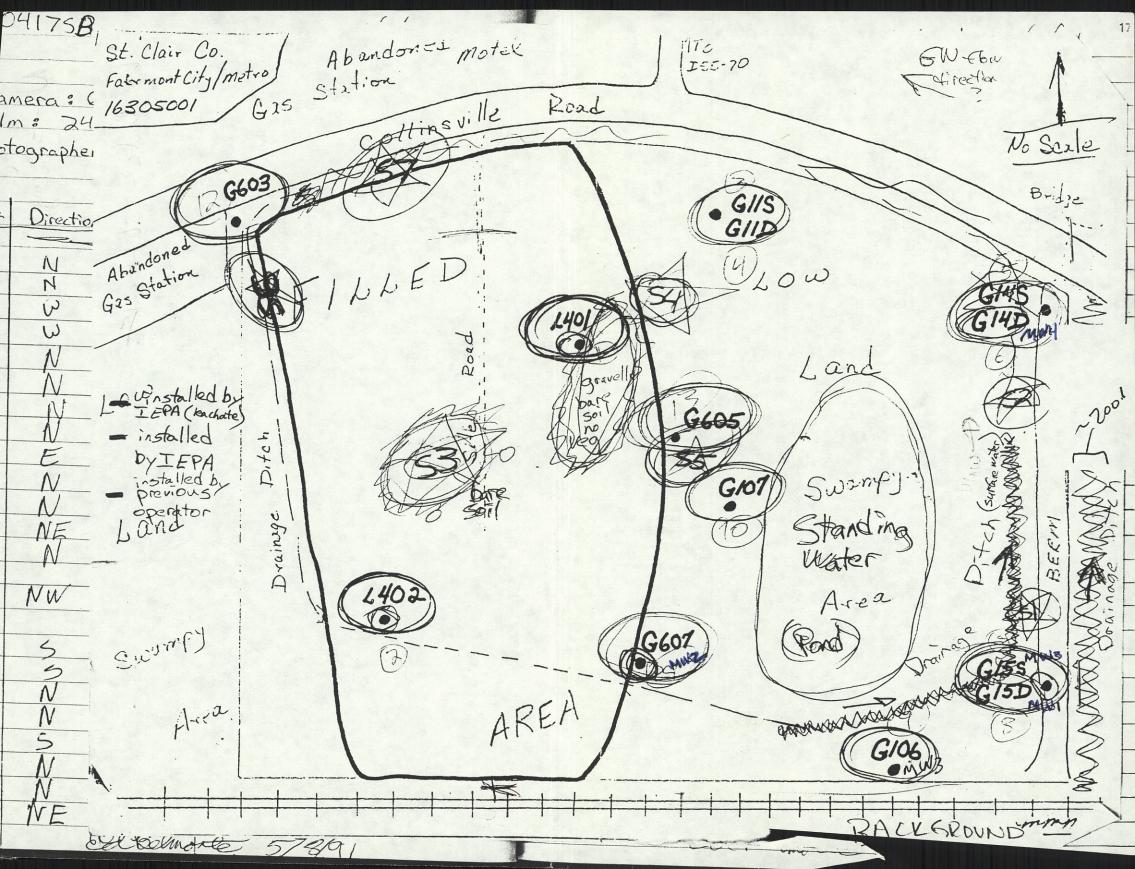
 St. Clair Counties, Illinois.
- Tri Cities Area Chamber of Commerce, October 21, 1991, contacted by Kerry Reyes of E & E.
- U.S. Bureau of the Census, 1982, 1980 Census of Population, Characteristics of the Population, General Population Characteristics, Illinois, Washington, D.C.
- U.S. EPA, June 11, 1981, Notification of Hazardous Waste Site form, section 103(c) for the Metro site, submitted by Anheuser-Busch, Inc., St. Louis.
- , 1985, <u>Potential Hazardous Waste Site Preliminary Assessment</u>, for the Metro site, U.S. EPA ID: ILD980607204, prepared by Mary E. Dinkel, IEPA.
- ______, 1988, Office of Solid Waste and Emergency Response, Pre-Remedial Strategy for Implementing SARA, Directive number 9345.2-01, Washington, D.C.
- USGS, 1954, photorevised 1968, 1974, Cahokia, Illinois-Missouri Quadrangle, 7.5 Minute Series: 1:24,000.
- , 1954a, photorevised 1968, 1974, French Village, Illinois Quadrangle, 7.5 Minute Series: 1:24,000.
- , 1954b, photorevised 1968, 1974, Granite City, Illinois-Missouri Quadrangle, 7.5 Minute Series: 1:24,000.
- USGS, 1954c, photorevised 1968, 1974, Monks Mound, Illinois Quadrangle, 7.5 Minute Series: 1:24,000.

7522:9

APPENDIX A

SITE 4-MILE RADIUS MAP



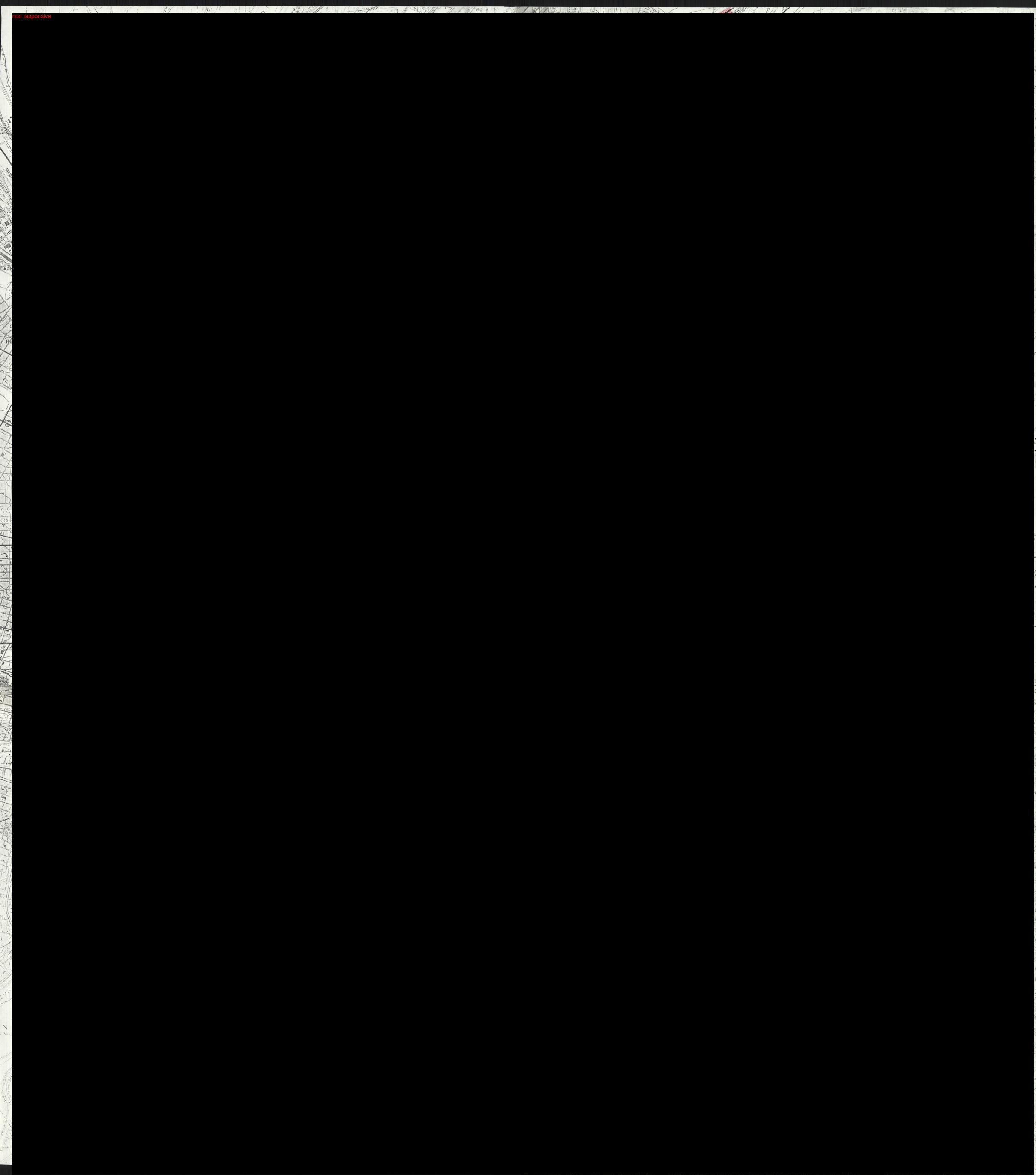




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SCALE:1" = 400

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APPENDIX B

U.S. EPA FORM 2070-13



Site Inspection Report

\$EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT ART 1 - SITE LOCATION AND INSPECTION INFORMATIO

L IDENTIFICATION					
01 STATE	02 SITE NUMBER				
IL_	D980607104				

PART 1 - SITE LOCATION AND INSPECTION INFORMATION						
II. SITE NAME AND LOC	ATION	•				
O1 SITE NAME Rage, common, er	descriptive name of sitely .		02 STRE	ET, ROUTE NO., OR SPI	ECIFIC LOCATION IDENTIFIER	
METRO DSPL SYST TNC			ROUT			
43 CITY			04 STAT	E 05 ZIP CODE	06 COUNTY	07COUNTY 08 CONG COOE DIST
FAIRMOUNT	CITY		IL	10.01	ST. CLAIR	163 23
I NO COORDINATES	, , , , , , , , , , , , , , , , , , ,	10 TYPE OF OWNERSHI			C. STATE D. COUNTY	(DE. MUNICIPAL
	D9 D D 7 L 5.0	☐ F. OTHER -			G. UNKNO	
III. INSPECTION INFORM	AATION To2 site status	03 YEARS OF OPERAT		· · · · · · · · · · · · · · · · · · ·	ALLEC	ng of Caustic
OI DATE OF INSPECTION	D ACTIVE	· -	 470	1 1974	ICASI DAMA CO	instruct until
MONTH DAY YEAR	■ NACTIVE		NING YE		1480.	•
04 AGENCY PERFORMING INS		Falling and Saff D	K			j
A.EPA B.EPAC	ONTRACTOR ECOLOSTY	rame of gumi TUNIN COMMITMENT	TELT C. M	IUNICIPAL [] D. MU	INICIPAL CONTRACTOR	(Mame of Britis)
DE. STATE DF. STATE	CONTRACTOR	ione of firm)	□ G. O	IREK	(Specify)	
05 CHIEF INSPECTOR		OS TITLE			ECOLOGY &	OB TELEPHONE NO.
FD BECM ON OTHER INSPECTORS	JONTE	W. KE	SOUR	ICE SPECIAL!	Mamposium a M	
		10 IIILE			THORGANIZATION	12 TELEPHONE NO.
DENEEN R	enford	BIOLOG	15T		ETE	(31) 663-948
				_	61-	(2.5)
NATHAN R	USSELL	CNEOLO	6-15	$\overline{\mathcal{L}}_{}$	EGE	1312667-9415
~		_		•	615	(22)(12 0)
Tim RODRIG	SIVEZ_	BIOLOG	5115	<u> </u>	EFE	(3,2)663-9415
17		1_				12.21
KELLY MA	CEÀ	200LD	<u>6015</u>	<u>T</u>	EYE	1212/1634415
CLIFF FLO	D C ~ A V	(1)	. —		F: C	31216639415
13 SITE REPRESENTATIVES IN	· - · · · · · · · · · · · · · · · · · ·	CHEMI	51	15ADDRESS	EIE	16 TELEPHONE NO
		DISECTOR OF		C DENN CE		4151977-1685
ION FENDE	RGAST	ENV. SERVICE		Philadel	Phia PA	NO 41 1-1682
مالد بروميم	•	REAC ESTAT		-		(2,7)3 , 3 ,,,,,,
MARK WARN	אכוב	WANAGEIS	- INDIAMAPOUL, IN		(317)261.4151	
			1			
		 	\rightarrow			
		1				()
		 		··· - .		
			l			()
						
<u> </u>		1	i			()
						-1
_			1			
17 ACCESS GAINED BY	18 TIME OF INSPECTION	19 WEATHER CONDI	TIONS			
(Check and) B PERMISSION			_			
□ WARRANT	10940	I MID JO	702	· SWNY		
IV. INFORMATION AVAIL 01 CONTACT	LABLE FROM	02 OF (Agency/Organia	edeal		 	03 TELEPHONE NO.
	_					
ALAN ALT		V.S.EP			I co en	(312)896-0396
04 PERSON RESPONSIBLE FO	IN SITE INSPECTION FORM	05 AGENCY	106 OR	GANIZATION	07 TELEPHONE NO.	08 DATE
MARK WH	ミ モルモラ	U.S.EPA	EI	£	312 663-9415	9 25,91 MONTH DAY YEAR
EPA FORM 2070-13 (7-81)	V-25-	10.0	1	1— 7 —————		

Ω.	
V	7~

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

LIDENTIFICATION						
01 STATE	02 SITE NUMBER					
14,	700W A7 174					

			PART 2- WASE	EINFORMATION	·		
	TATES, QUANTITIES, A	ND CHARACTER	ISTICS				
B A SOLID LI E SLURRY must be in		naebeugeuri naebeugeuri			LIBLE 3 L HIGHLY SCROUS 5 J. EXPLOS MINIBLE 5 K. REACT	SIVE IVE PATIBLE PPUCABLE	
ML WASTET		<u> </u>		 		•	
CATEGORY	SUBSTANCE	NAME	DI GROSS AMOUNT	02 UNIT OF MEASURE	03 00000000		
SLU	: SLUDGE		UNKNOWN		3333		
OĽW	OILY WASTE		MACAMA		(S -	ctions 2-3	4 <
SOL	SOLVENTS		CHKNOW	 		ARRATIVE SUTTE	1, 7,3
PSD	PESTICIDES		MACANAM	<u> </u>	140 171	HICKHINE	
occ	OTHER ORGANIC C	HEMICALS	UN KNOWN	{			 -
IOC	INORGANIC CHEMI		C NKNOWS		 -		
ACD	ACIDS		nhkhomb 060	<u> </u>			
BAS	BASES		UNKNOWN		-	-, -	
MES	HEAVY METALS		UNKNOWN				<u> </u>
IV. HAZAROO	OUS SUBSTANCES (See	Spends for most frequent	 _		<u> </u>		
01 CATEGORY	02 SUBSTANCE		03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	SEETABLE 4	-1 ² u->				<u> </u>	
		PRRATIVE					
	1	1 10.00.10.00					
						 	1
			 			 	
						 	
							
						 	
							
 j							
						1	
		· <u> </u>					
W FFFDATA			I			<u> </u>	L
	CKS (See Appendix for CAS fluid						
CATEGORY	01 FEEDSTOO	X NAME	02 CAS NUMBER	CATEGORY	01 FEEDST	OOK NAME	02 CAS NUMBER
FDS	A/A		ļi	FDS			 -
FDS				FDS			
FDS			ļ	FDS			
FDS	_11		L	FDS			
VL SOURCES	OF INFORMATION ACA	Specific references. e.g.,	store Bloc. Sample analysis. A	соолы			
•	FIT FILES ,T				-		
EYEY	ETT SITE I	このろろをしてい) 1990 1990) .			
PA FORM 2070	.2.7.2		·				

©FPΔ

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION
01 STATE 02 SITE NUMBER

PART 3 - DESCRIPTION OF H	IAZARDOUS CONDITIONS AND INCIDENT	rs Trub	480602704
IL HAZARDOUS CONDITIONS AND INCIDENTS			
01 B A GROUNDWATER CONTAMINATION 375	02 08SERVED (DATE: 5/8+9/91) 04 NARRATIVE DESCRIPTION FIT	C POTENTIAL	□ ALLEGED
See Section 5-2 IN N	Varrative	•	
01 B B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 © OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	C ALLEGED
See Section 5.3	of Narrative		
01 D.C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: 1	02 3 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	D POTENTIAL	C ALLEGED
See Section 5-4 in	NARRATIVE	C: POTENTIAL	☐ ALLEGED
01 ® D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: 17,1054	04 NARRATIVE DESCRIPTION 8 - 21-78.	L PUIENIME	LI ALLEGED
Two separate incidence of fines The Metro site. See Section 5-5 in Narrat		ite have o	ccured at
01 E E. DRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: 4505	02 _ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	E POTENTIAL	□ ALLEGED
See Section 5-6 iw No	arrative		
01 III F. CONTAMINATION OF SOIL 18 03 AREA POTENTIALLY AFFECTED: (ACON)	02 & OBSERVED (DATE: 5-8-91) 04 NARRATIVE DESCRIPTION	D POTENTIAL	□ ALLEGED
See Section 5	i-2 in Narrative.		
01 B G. DRINGING WATER CONTAMINATION 375 03 POPULATION POTENTIALLY AFFECTED: 375	02 I OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	C) ALLEGED
See Section 5.	-2 in Narrative		
01 . N. WORKER EXPOSURE/NURY 03 WORKERS POTENTIALLY AFFECTED:	02 J OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	D POTENTIAL	□ ALLEGED
Site is inactive and There o		ખલ્દ	
01 EL POPULATION EXPOSURE/INJURY 6,505	02 - OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION		[] ALLEGED
Site is not restricted.			
of the sile can potentially haccese to sile is not restricted	1 -		
MORNETO SIME 12 1101 LESANICIE	c. Sec Section 5-	6 IN Na	Mative

\$EPA

POTENTIAL HAZARDOUS WASTE SITE

SITE INSPECTION REPORT

L IDENTIFICATION 01 STATE 02 SITE MARSER
TL D980C07204

PART 3 - DESCRIPTI	ION OF HAZARDOUS CONDITIONS AND INCIDENTS	
IL HAZARDOUS CONDITIONS AND INCIDENTS A		
01 Q J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 TO OBSERVED (DATE: 3-25.78) D POTENTIAL	1
- 1 Clarificta massi	he fine was observed by agents of IEP he were also reported in the Illinois Po	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Brown Diver account Metro	Deal Sus Inc in Dim 7, 1973. Discolor	& soils were obse
OI & K. DAMAGE TO FAUNA	DSDI Sys, Inc. on Dim 7, 1973. Discook	. D ALLEGED
O4 NAMEATINE DESCRIPTION include nameral of species)	ence was reported or observed a poten	tial exists
for france to become clan	aged by consuming contaminated flo	20 02
direct contact to TCL compo	ounds und/or TAL analytes.	
01 & L CONTAMNATION OF FOOD CHAIN	ounds and/or TAL analytes. 02 0 OBSERVED (DATE:) POTENTIAL	. D ALLEGED
Data to Devists for food	contamination through consumption	1 of
contaminated flora or fa	contamination through consumption	
01 M. UNSTABLE CONTAINMENT OF WASTES	02 OBSERVEN (DATE: JULY 21 - 22 1971 POTENTIAL	. D ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 17	054 04 NAME ATTIVE DESCRIPTION	
TEPA observed yellow pain	t-lile liquid, paper pulp, scum and booter on site. Leachate on site was	nown bottle
flow off-site into a draine	age ditch and eventually 40 The Missis	sipoliziver.
01 M N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:) R POTENTIAL	
Leachate flowing off-site	, into nearby waterways.	
01 D O. CONTAMINATION OF SEWERS, STORM DRAI 04 NARRATIVE DESCRIPTION	INS, WWTPs 02 OBSERVED (DATE:) POTENTIAL	. D ALLEGED
Nowe Documented or O	bserved.	
01 P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02FOBSERVED (DATE:) DEPOTENTIAL March 1973 - June 1980.	
Sile closed in 1973, but	CERCLA 103 & form filled WUS. EPA	by Anhouser-
Bush, Enc. on June 9, 1981,	moreates (MC Committee aber purp was	shipped to
OS DESCRIPTION OF ANY OTHER KNOWN, POTENTIA		
Inadequate fencing.		
Inadequate fencing. Remoff of leachast to	Surface waters.	
ML TOTAL POPULATION POTENTIALLY AFFECT	ED: 17,654	
IV. COMMENTS		
		1
NOWE		
V. SOURCES OF INFORMATION (CON MODERN CONTINUES OF	e. g., page Med, sample analysis, reports;	
ELE/FIT files , Region		
ELE / FIT SITE INSPECT	or, 1991	

⊕EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION PART 4-PERMIT AND DESCRIPTIVE INFORMATION L IDENTIFICATION O1 STATE 02 SITE NUMBER L DF10C 07204					
II. PERMIT INFORMATION						
01-TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	03 DATE	ISSUED	04 EXPIRATION DATE	05 COMMENTS	
•		-				
□ A. NPOES □ B. UIC		+				
C. AR						
D. RCRA		+				
DE. ACRA DITERMISTATUS		+				
F. SPCC FLAN				<u> </u>		
G. STATE Speciff	NENDUN	197	0	6-7-73	Pervist &	uss hevoked by EPCI
□ H. LOCAL Stanoofy)	UN CROSS	117.	<u> </u>	6 1 5	W- 1973	<u>' </u>
□ I. OTHER (Specify)		 				
DJ. NONE		 				<u> </u>
III. SITE DESCRIPTION	1			<u> </u>		
01 STORAGE/DISPOSAL (Check of that apply)	02 AMOUNT 03 UNIT C	F MEASURE	04 TF	REATMENT (Check all pier a	poly1	05 OTHER
☐ A. SURFACE IMPOUNDMENT			۱.,	AICENEDATION		
D B. PILES			A. INCENERATION B. UNDERGROUND INJECTION			☐ A. BUILDINGS ON SITE
C. DRUMS, ABOVE GROUND			C. CHEMICAL/PHYSICAL			1
D. TANK, ABOVE GROUND			D. BIOLOGICAL			NONE
☐ E. TANK, BELOW GROUND _			☐ E. WASTE OIL PROCESSING			06 AREA OF SITE
	rupon nyk	MONN		SOLVENT RECOVER	-	218
☐ G. LANDFARM				OTHER RECYCLING		Morey
DIOTHER			₩ H.	OTHER /VF		
(Specify)	 		<u> </u>			<u> </u>
The Site was I	used as a s abel pulp w	olid L enc o	ous.	k disposa posed of	l facili	ty, however, the site.
IV. CONTAINMENT						<u>-</u>
01 CONTARMENT OF WASTES (Check ann)	C) 8. MODERATE	■ C. •	VADEQL	JATE, POOR	O D. DESECU	RE, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKING, LINERS, 1	BARRIERS, ETC.					
No liner, no b	sanviers to	, su	veū	t surfu	ce wat	ter run-off
and off-sole lead						
V. ACCESSIBILITY						
01 WASTE EASILY ACCESSIBLE: YES						
Site is not funced	and access	able t	T	me public	. ~	

ELE/FIT SITE INCPECTION, 1991

VL SOURCES OF INFORMATION (CO+ specific references, # g state fine, sample analyses, reserts)

FLE FIT Files, Region I

≎EP A
IL DRINKING WA
01 TYPE OF DRIMING
COMMUNETY NON-COMMUNETY

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION 01 STATE 02 SITE NUMBER

VLIA	PART 5-WATER	L DEMOGRAPHI	C, AND ENVIRO	NMENTAL DATA	IL 10980601784
IL DRINKING WATER SUPPLY		<u></u>	······································		
01 TYPE OF OFWINDING SUPPLY		02 STATUS			03 DISTANCE TO SITE
SURFACE	WELL	ENDANGERE	D AFFECTED	MONITORED	İ 🗼 .
COMMUNETY A. III	8. 🗆	A.D	8. □	C. .	A 24 (mi)
NON-COMMUNITY C. [D. =	UNKNOWO	€. 🖸	F.	8. ~ 1/4 (mb)
ML GROUNDWATER		· · · · · · · · · · · · · · · · · · ·			
01 GROUNDWATER USE IN VICINITY (Check	ene)				
· B A ONLY SOURCE FOR DRINKING	B. DRINKING		II C COMMERC	CIAL INDUSTRIAL IRRIGAT	TION D. NOT USED, UNUSEABLE
• • • • • • • • • • • • • • • • • • • •	(Other sources evalu	OUSTRIAL, IRRIGATIO	(Limited esha	r sources available)	
	•				
02 POPULATION SERVED BY GROUND WA	375	.,	02 DISTANCE TO ME	AREST DRINKING WATER I	MELL ~ 1/4 6mg
04 DEPTH TO GROUNDWATER	DE DIRECTION OF GAC	DUNDWATER FLOW	06 DEPTH TO AQUIFE OF CONCERN	R 07 POTENTIAL YIEL OF AQUIFER	D 06 SOLE SOURCE AQUIFER
(<u>)</u>		east west	! <u>! </u>	(10) unknow	Yes ■NO
09 DESCRIPTION OF WELLS moleting seesge	depth, and location relative to	provision and buildings	<u> </u>		
		•••			
				•	
See Section 5- 10 RECHOOL MEAN Recho	2 in Na	rative	cm d Ap	perdix E.	
10 RECHURGE MEA Recho	nged via r	ain	11 DISCHARGE AREA	Dischan	a. to low lyne
TYES COMMENTS WELLE	Percolati	04	TYES COMM	ENTS west and	ge to low lying on eastern
□ NO	•		0 NO 1061	f of The sit	₹.
IV. SURFACE WATER					
01 SUPFACE WATER USE (Check one)					
B A RESERVOIR RECREATION DRINKING WATERSOURCE		N, ECONOMICALLY IT RESOURCES	C. COMME	RCIAL, INDUSTRIAL	D. NOT CURRENTLY USED
					···
02 AFFECTED POTENTIALLY AFFECTED BY	DOIES OF WATER				
NAME:				AFFECTED	DISTANCE TO SITE
NA ' ' ' - '					7 -
100 50 152 1 PAI			···		
Schoenhomer (Lree K			0	150 feet m
UNNAMED O RIVE				0	114 MILE
V. DEMOGRAPHIC AND PROPERT	Y INFORMATION				
01 TOTAL POPULATION WITHIN				02 DISTANCE TO NEARE	ST POPULATION
	O (2) MILES OF SITE	THREE (3) MILES OF SITE	Ι,	
A 6505	77.624		1,577		[4(mi)
NO OF PERSONS	NO. OF PERSONS		O. OF PERSONS	<u> </u>	
OS NUMBER OF BUILDINGS WITHIN TWO (2)			04 DISTANCE TO NE	VREST OFF-SITE BUILDING	<u> </u>
	6108			300-	- Ind
OS POPULATION WITHIN VICINITY OF SITE A	Provide narrative description of	return of population within a	icinty of site, e.g., notel, vil	nce, densely passisted when an	.
The site is located north of the city of East St. Louis. Railraad					
· tracks separate the sime from residential areas. These Areas South of The					
Site are more da					
north of The site	spansely	populat	red.	-	

EPA FORM 2070-13 (7-81)

	_		
35.	-	$oldsymbol{ u}\Delta$	
	_		L

POTENTIAL HAZARDOUS WASTE SITE

	L IDENTIFICATION						
1	01 STATE	02 SITE NUMBER					
		D18060120					

\$EPA		CTION REPORT HC, AND ENVIRONMENTAL DATA	TL D180657204
VI. ENVIRONMENTAL INFORMA			
OT PERMEABILITY OF UNSATURATED Z			
□ A. 10-¢ ~ 10-	-8 cm/sec	E C. 10 ⁻⁴ - 10 ⁻³ cm/sec ☐ D. GREATE	R THAN 10 ⁻³ cm/sec
02 PERMEABILITY OF BEDROCK (Check	anej		
A. IMPERIA Rage than 1	MEABLE B. RELATIVELY IMPERMEAB 10 ⁻⁶ cm/sec) [10 ⁻⁴ ~ 10 ⁻⁶ cm/sec)	BLE C. RELATIVELY PERMEABLE []	D. VERY PERMEABLE (Greater stan 10 ⁻² cm/sec)
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
~115 m	unicroun m	Imknow	
06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	06 SLOPE SITE SLOPE DIRECTION OF SITE	SLOPE TERRAIN AVERAGE SLOPE
8(in)	(m)	-<3 * East	
SITE IS IN 100 YEAR FLO	N/A I SITE IS ON BARR	NER ISLAND, COASTAL HIGH HAZARD ARE	A, RIVERINE FLOODWAY
11 DISTANCE TO WETLANDS IS acre mann	<u> </u>	12 DISTANCE TO CRITICAL HABITAT for endange	and special
ESTUARINE	OTHER	2/4	(mi)
A N/A (mi)	B. ON-SITE (ml)	ENDANGERED SPECIES:N	<u>A</u>
13 LAND USE IN VICINITY			
DISTANCE TO:	RESIDENTIAL AREAS! NATIO	ONAL/STATE PARKS, AGE FE RESERVES PRIME AG L	RICULTURAL LANDS NNO AG LAND
300 ft	. <u>8. 350</u>	ft_ma_ c. >1	(mi) D. > } (mi)
14 DESCRIPTION OF SITE IN RELATION 1	TO CLIPTON WITHIN TORONOM STAY		
See Sec. 3 in	Narrative and	l Appendix A.	
VII. SOURCES OF INFORMATIO		, reports)	
FEF FIT FILE	S, REGIONE,		
E'E / FIT SIT	F Inspection 199	io	į

	,	
3		-74

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 6 - SAMPLE AND FIELD INFORMATION

LEDENTIFICATION
OI STATE 02 STE NUMBER
TL D 12067024

		P#	ART 6-SAMPLE AND FIELD INFORMATION	10001004
IL SAMPLES TAKE	N			
. SAMPLE TYPE		01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO .	OS ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	_	ii mw	TCL - PEI Associates, Cincinnati, Onio TAL - Data Chem, Inc Salt Lake CityUT	available now
SURFACE WIATER				
WASTE			·	•
AIR				
RUNOFF			·	
SPLL				
SOL		8	TCL - PET Associates, Cincinnati OHIO TAL - Data Chem, Inc., Sall Lake City, UT	avoctable now
VEGETATION			·	
OTHER GROUP	duder	& Leachate Wests	TCL - PEI Associates, Cincinnati, Onio TAL - Data Chem, Inc, Salt Lake City, UT	available
M. FIELD MEASURE				· · · · · · · · · · · · · · · · · · ·
01 TYPE		ON COMMENTE	No. 1	L mr C
DVA 12	9	Methane	above background when No devi	anons hing zone
			3	1.0-1.
• .	•		ations from background	
			ngs above background	
Monitox		No device	ctions from background	
IV. PHOTOGRAPHS	AND MAPS			
01 TYPE & GROUND	B AERIAL		02 M CUSTODY OF FCOLOGY & ENVIRONMENT FINE C	hicago-IL
03 MAPS	04 LOCATION	OF MAPS	^ ~	
□ NO	<u> </u>	DIOGY & END	rownent Chicago IL	
V. OTHER FIELD DA	TA COLLEC	TED Provide Assessed Asses		•
Physica	l desi	cripition	of soils samples	١
)		•	, temperature of water samples.	
•	Mode	of well a	and depth to groundwater of mo	nitoring
D-21	Tel.	10. Woll o	in report. Well samp	oles
(JETEN)	J 1 -21		, .	
VI. SOURCES OF IN	I-ORMATIO	N (Cite specific references, e.	;, state flue, compto analysis, reports;	
ELE SSI	= Log!	book		
ELE/FI	T File	rs Region	T	

Labratory Analytical Data.
EPAFORM 2070-13 (7-81)

					400000		704
		POT	ENTIAL HAZA	RDOUS WASTE SITE	I. IDENTIF		
SEPA "			SITE INSPEC			ATE 02 SITE NUMBER	
VLIA				R INFORMATION	IC	DG	80607024
			TANT TO WHIL	araa onaarior			
IL CURRENT OWNER(S)	_			PARENT COMPANY IT APPLICATES			
DI NAME		1000	+B NUMBER	OB NAME		1000	+B NLMBER
	1	720	4.0 MOMBEÜ	1		1000	TONUMBER
Consolidated Rail (CONT)	~いし)	1		N/A			
O3 STREET ADDRESS (P.O. Box, NO P. oc.)		1	04 SIC CODE	10 STREET ADDRESS (P.O. Box, NFO F, etc.)			11 SIC CODE
10.		- 1		1			
Six Pewn Center Mon Philadelphia				<u> </u>			
OS COTY	OS STATE	07 21	P COOE	12017	13 STATE	14 Z	OP CODE
Dul-dalshi	154	1 1	9103				
Philadelphia	15	1-4	9/03			}	
OT NAME		020	+B NUMBER	OB NAME		09 0	+ B NUMBER
		1		1			
O3 STREET ADDRESS (P.O. Box, NFD 4, occ.)			04 SIC CODE	10 STREET ADDRESS (P.O. Bar, NFO F, CE)		٠	11SIC CODE
STREET ADDRESS (F.U. BE., 1404, BE.)		ſ	~ 30 0000	1001162170012007001321700123			
1		ł		1			
OS CITY	OS STATE	107 Z	P CODE	12 017	13 STATE	114Z	OP CODE
· ·	1					1	
	<u> </u>				L_	<u>L</u>	
O1 NAME		02 D	+B NUMBER	OS NAME		09 0	+B NUMBER
Į.		[L		1	
				L		<u> </u>	
03 STREET ADDRESS (P.O. Box, NFD F. odc.)			04 SC CODE	10 STREET ADDRESS (P.O. Box, AFO 4, atc.)	-]	11SIC CODE
ł		I		1			
		ليب					
os atv	OS STATE	107 Z	P COOE	12017	13 STATE	14 Z	P COOE
		1		1	4	l	
O1 NAME		02.0	+B NUMBER	OS NAME		1000	+ B NUMBER
POT ROBE		1020	T B NOMECT	OO HOME		رمورا	T B INUMBER
•		1		1		1	
03 STREET ADDRESS (P.O. Box, AFO 4, etc.)		1	04 SC CODE	10 STREET ADDRESS # 0. Box. NFD #, onc.)		┺┪	11SIC COOE
		- 1					
l		- 1		i			
05 CITY	OG STATE	07 Z	P COOE	12 CITY	13 STATE	142	OP CODE
				ł		1	
	1	<u> </u>				1	
DI MAME OI MAME I CAILEDAD PENN CENTRAL OSTREET ADDRESS (P. d. aug. 1904. de.)				IV. REALTY OWNER(S) of applicable for most	nced firef		
01995		In2 D	+B NUMBER	OT NAME		102 D	+8 NUMBER
TO TO TO THE PARTY		1		N/A	l	[
PENN LENTRAL		i		N/A		l	
03 STREET ADDRESS (P.O. Box. AFD F. otc.)		-1	04 SC COOE	03 STREET ADDRESS (P.O. Box, AFD P. ox.)			04 SIC CODE
UNKNOWN		_ J	•	<u> </u>		- 1	
	—					لب	
05 CITY	106 STATE	07 Z	P C00€	os city	06 STATE	07 Z	OP CODE
•	1. 1				- 1	1	
O1 NAME	<u> </u>	200	BILLABER	O1 NAME		02.0	+B NUMBER
lo		W 5	r & HUMBUCA	0.100	l	1026	T B RUMEDON
		l			1	1	
CO STREET ADDRESS (P.O. But, AFD 4, occ.)			04 SC CODE	03 STREET ADDRESS (P.O. Box, AFD F, car.)			04 SIC CODE
		1		ł		- 1	
<u> </u>		لي		laran	162222	لي	
06 CITY	06 STATE	107 ZH	- COOL	06 City	06 STATE	1 ^{07 Z}	₽ C00€
ł	į į	l		[Į	
O1 NAME	<u>-</u>	02.0	+ B NUMBER	OI NAME		02.0	+ B NUMBER
VI Val		المرين	* # MUMBER	···		المتعال	TO NUMBER
i		•			ŧ	1	
03 STREET ADDRESS (P.O. Box, AFD P. occ.)		1	04 SC CODE	03 STREET ADDRESS (P.O. Box, NFO F, etc.)		1	04 SIC CODE
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OSCITY	06STATE	07 2	DP COO€	05 CITY	06 STATE	07 Z	P CODE
1]	1] .	1	1	
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V. SOURCES OF INFORMATION (CH aproxi	c references.	e.g., et	ste Tal., pampie analysis. N	perty.	-	_	
FIE SSI LOGBOOK FIE FIT FILES Reg.							
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ELEFIT FILES DA	ترمدة	L					1
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l . <u>'</u>							

\$EPA ·	SITE INSP		SITE INSPEC	RDOUS WASTE SITE	LIDENTIFICATION 01 STATE 02 SITE NUMBER TL D980607004	
II. CURRENT OPERATO	20.			OPERATOR'S PARENT COMPANY		
OI NAME	ALL LLONGS SELLONGS NO		02 O+B MANBER	10 NAME		11 D+8 NUMBER
NA				N/A		
03 STREET ADDRESS P.O. &	os. RFD+, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, AFD 4, etc.)		13 SIC CODE
06 CITY		06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER					- -
M. PREVIOUS OPERAT	OR(S) (a) pour mont	rat provide and	of different from owners	PREVIOUS OPERATORS' PARENT O	OMPANIES #	mofcethist
01 NAME			02 D+B NUMBER	10 NAME		11 D+B NUMBER
METRO DU POS	AL SYSTEMS	INC		NIA		
			1	12 STREET ADDRESS (P.O. Box, APD P. etc.)		13 SIC CODE
207 Belleville				14 CITY	15 STATE	16 ZIP CODE
Belleville OBYEARS OF OPERATION	09 NAME OF OWNERS	URING THE	62220 PERIOD			
1970-1973	PENN (EV	MASTY	51 4 51	ĺ		
01 NAME			02 D+B NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS P.O. So.	s, RFD+, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, AFD P. etc.)	1	13 SIC CODE
05 City		06 STATE	07 ZIP COOE	14 CITY	15 STATE	16 ZIP CODE
OS YEARS OF OPERATION	00 NAME OF OWNER	DURING THE	S PERIOD			· · · · · · · · · · · · · · · · · · ·
01 NAME	<u> </u>		02 D+B NUMBER	10 NAME		11 D+8 NUMBER
03 STREET ADDRESS P.O. 600	r, RFD4, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, AFD 4, etc.)	1	13 SIC CODE
			1			
05 CITY		06 STATE	07 ZIP COO€	14 CITY	16 STATE	16 ZIP CODE
OR YEARS OF OPERATION	09 NAME OF OWNER	DURING THE	PERIOD			
IV. SOURCES OF INFO	RMATION (Cite specific	references, e	g., etale like, senale analysis	, reported		
FLE/FIT	FILES,	Regi	ONI			
EFE FIT						
,		-	-			

≎EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 9 - GENERATOR/TRANSPORTER INFORMATION			L DENTIFICATION 01 STATE 02 SITE NUMBER LL D970607004	
IL ON-SITE GENERATOR		<u> </u>			· · · · · · · · · · · · · · · · · · ·
OI NAME		02 D+B NUMBER		······································	•
NA					
03 STREET ADDRESS (P.O. Box, NFD P, osc.)		04 SIC CODE			
os atry	06 STATE	07 ZIP CODE	•		
M. OFF-SITE GENERATOR(S)				·	
OI MANE		Q2 D+B NUMBER	O! NAME		02 D+B NUMBER
Anneuser-Busch		NA	NIA		
721 Pestalozzi		04 SIC CODE NA	03 STREET ADDRESS (P.O Box, NFD P, SEC.)		04 SIC CODE
St Louis	00 STATE	0721100E	05 CITY	06 STATE	07 ZIP CODE
OI NAME	1170	02 D+B NUMBER	01 NAME	,l	02 D+B NUMBER
ONKNOWN			NA		
03 STREET ADDRESS (P.O. Box, AFO F, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, AFD P, osc.)		04 SIC COOE
06 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
IV. TRANSPORTER(S)					
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
unknown			N/A		
03 STREET ADDRESS (P.O. Box, AFD F, etc.)		04 SIC CODE	.03 STREET ADDRESS (P.O. Box, MPD P. edc.)		04 SIC CODE
osany	OS STATE	07 ZP CODE	06 CITY	06 STATE	07 ZIP COOE
OI NAME NA		02 D+B NUMBER	01 NAME NA		02 D+B NUMBER
03 STREET ADDRESS (P.O. But, NºO F, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, MRD P, old.)		04 SIC CODE
os ary	06 STATE	07 ZIP COOE	05 CITY	08 STATE	07 ZIP COOE
V. SOURCES OF INFORMATION (Cite appeals)	adversors o	g., alate files, sample and	hot, reported		
ELE FITFICES T	REG	IONI			
EFE SITE INSPE	CT/01	V , 1991	,		
, , , ,	-	, .,			
EPA FORM 2070-13 (7-81)		<u> </u>			

1	POTENTIAL HAZARDOUS WASTE SITE		L IDENTIFICATION
SEPA	SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES		OI STATE OF SITE MARSER TL DGROGOTO34
IL PAST RESPONSE ACTIVITIES			
01 DA WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE	03 AGENCY	
NIA	•	•	
01 D 8. TEMPORARY WATER SUPPLY PRO 04 DESCRIPTION	OVIDED · 02 DATE	03 AGENCY	
NIA			
01 C. PERMANENT WATER SUPPLY PRO 04 DESCRIPTION	VIDED 02 DATE	03 AGENCY	
N/A		,	. •
01 [] D. SPILLED MATERIAL REMOVED	O2 DATE	03 AGENCY	
04 DESCRIPTION N/A			
01 D.E. CONTAMINATED SOIL REMOVED	02 DATE	03 AGENCY	
04 DESCRIPTION V/A			
01 D.F. WASTE REPACKAGED	02 DATE	03 AGENCY	
04 DESCRIPTION N / A			
01 D.G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	03 AGENCY	
N/A			
01 D H. ON SITE BURIAL 04 DESCRIPTION	02 DATE	03 AGENCY	
W/A			
01 D L IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
N/A	·	. <u></u> _	
01 [] J. BI SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
N/A			
01 () K. BI SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
W/A			
01 CI L BICAPSULATION 04 DESCRIPTION	O2 DATE	03 AGENCY	
N/A			
01 () M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
N/A			
01 D N. CUTOFF WALLS	02 DATE	03 AGENCY	
04 DESCRIPTION N/A			
01 D O EMERGENCY DIKING/SURFACE WA	TER DIVERSION 02 DATE	03 AGENCY	
04 DESCRIPTION N/A			
01 [] P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY	
N/A	•		
01 [] Q. SUBSURFACE CUTOFF WALL	O2 DATE	03 AGENCY	
04 DESCRIPTION //A			

	POTENTIAL HAZARDOUS WASTE SITE		L IDENTIFICATION
⊕EPA	SITE INSPECTION REPORT PART 10-PAST RESPONSE ACTIVITIES	ĺ	TL D980C07804
II PAST RESPONSE ACTIVITIES (Comment)			
01 G. BARRIER WALLS CONSTRUCTED	02 DATE	03 AGENCY	
04 DESCRIPTION N/A			•
01 [] S. CAPPING/COVERING	02 DATE	03 AGENCY	
04 DESCRIPTION N/A			·
01 T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY.	
N/A		·	·.
01 U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY.	
N/A			
01 U. BOTTOM SEALED 04 DESCRIPTION . N/A 01 U. GAS CONTROL 04 DESCRIPTION N/A	02 DATE		
01 D W. GAS CONTROL	02 DATE	03 AGENCY	
04 DESCRIPTION N/A			
01 B X. FIRE CONTROL	02 DATE 2 114 77 8	03 AGENCY	Consail
Fires beneath swiface of Soils were Then recovered.	Site. Soils were excavated an Denformed by Connail Engine	2 fires	were extinguished.
01 DY. LEACHATE TREATMENT	OZ DATE	03 AGENCY	
04 DESCRIPTION NA	<u> </u>		·····
01 [] Z. AREA EVACUATED 04 DESCRIPTION	02 DATE	03 AGENCY.	
NA	02 DATE		
01 []-1: ACCESS TO SITE RESTRICTED 04 DESCRIPTION	OS DATE	03 AGENCY	
NA	02 DATE		
01 [] 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	03 AGENCY_	
MA			
01 123. OTHER REMEDIAL ACTIVITIES	02 DATE	03 AGENCY.	
04 DESCRIPTION MA			
1	•		
1			
1			
1			
l			
IL SOURCES OF INFORMATION (Cas apposite refer			
E: E/FIT Files Place	gion I		
E'E/FITTIES Red FOE Site Inspection	1 1991		



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

L IDENTIFICATION

01 STATE 02 SITE NUMBER

1 1980607084

IL ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION # YES E NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

Order by Illinois Pollution Control Board (PCB 73-59)
on June 8, 1973, Christian L. Moffett, Clerk, IPCB.

enforced The following actions:

- 1 Revolled Metro Disposal System Incis permit to operate a land fill at The site.
- @ Required final (over 490 days of The order
- 3 Required Metro Dispocal Systems Inc to cease and desist from violating rules and regs regarding refuse disposal.
- @ A\$2,500 penality to The State of Illinois.

III. SOURCES OF INFORMATION (City specific references, e.g., place stres, particle analysis, records)

E! E / FIT files Region I.

ELE Site Inspection 1991

APPENDIX C

FIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Metro DSPL SYST INC PAGE JOF 22

U.S. EPA ID: 12) 98060720/TDD: FOS-8912-090 PAN: FILOY175B

DATE: > 5 8 /91

TIME: > 1230

DIRECTION OF PHOTOGRAPH:

veather conditions: > Pleasant

> Mid 7c's sunny

PHOTOGRAPHED BY:

SAMPLE ID
(if applicable):



DESCRIPTION: > Close-up view of schiant sample SI collected from
> the west edge of the berm on the sites east side

DATE: > 5/8/91

TIME: > 12:30

DIRECTION OF PHOTOGRAPH: > North

VEATHER
CONDITIONS: .
> Sunny, mid 7c's

PHOTOGRAPHED BY:

SAMPLE ID
(if applicable):
> 51



DESCRIPTION: > Perspective vum of sectional semple SI,

SITE NAME: Metro DSPL SYST INC

PAGE TOF 22

U.S. EPA ID: 1 LD 98060720/TDD: FOS-8912-090 PAN: FILOYITSB

DATE: > 5/8/91

TIHE: > 12:45

DIRECTION OF PHOTOGRAPH:
> West

VEATHER
CONDITIONS:
> Sunny, mill

>2700

PHOTOGRAPHED BY: > 13elmonte

SAMPLE ID
(if applicable):
> 57



> from the west edge of the berm on the east side of the site

DATE: >5/8/91

TIME: > 12:45

DIRECTION OF PHOTOGRAPH: > \(\subseteq 2\subseteq^+ \)

VEATHER
CONDITIONS:
> Sunky, mild

> 70s

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID (if applicable): > 57



DESCRIPTION: > Perspective vun of Sediment Sample SZ.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Metro DSPL SYST INC PAGE 3 OF 22

U.S. EPA ID: 14) 98060720/TDD: FOS-8912-090 PAN: FILOY,75B

DATE: > 5 7 /91

TIME: > = -

DIRECTION OF PHOTOGRAPH:

VEATHER
CONDITIONS:
> Sunny mild
> ~70°

DUOSOCO A DUES DA

PHOTOGRAPHED BY:

SAMPLE ID
(if applicable):
> \(\le 3 \)

THE RESO

DESCRIPTION: > Closeup ot soil sample S3 collected from an

> sign of bore soil on top of the land fill.

DATE: > 5/8/91

TIME: > 3 40

DIRECTION OF PHOTOGRAPH:

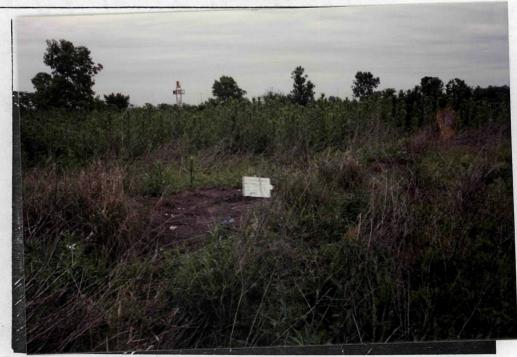
WEATHER CONDITIONS:

> Eunny mild

> ~7c°

PHOTOGRAPHED BY:

SAMPLE ID (if applicable): > 53



DESCRIPTION: > Perspective view of soil sample 53

>

SITE NAME: METO DSPL SYST INIC PAGE 4 OF 22

U.S. EPA ID: 14) 98060720/TDD: FOS-8912-090 PAN: FILOY,75B

DATE: > = 8/91

TIME: > 13 50

DIRECTION OF PECTOGRAPE: > Viert

VEATEER : SHOITICHOS >=-nny mild

> -- 700

PECTOGRAPEED BY: > seincrite

SAMPLE ID (if applicable):



DESCRIPTION: > Close-up view of soil sample 54 collected

> iron red stained soil on the eastern edge of the

DATE: > 5/8/91

TIME: > 350

DIFECTION OF PHOTOGRAPH:

WEATHER CONDITIONS: > sunny mill

PECTOGRAPHED BY: > Stimente

SAMPLE ID (if applicable):



DESCRIPTION: > Perspective vino of soil sample S4

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Metro DSPL SYST INIC PAGE 5 OF 22

U.S. EPA ID: 14) 98060720/TDD: FOS-8912-090 PAN: FILC417513

DATE: > 5/8/91

TIHE: > 13:50

DIRECTION OF PHOTOGRAPH: > East

WEATEER CONDITIONS: > sunny, mild

> 2700

PHOTOGRAPHED BY: > Be merte

SAMPLE ID (if applicable):



DESCRIPTION: > Perspective ulw of soil sample Sy

> snowing wettend west of sample location

DATE: >5/8/91

TIME: > 14:12

DIRECTION OF PHOTOGRAPH: > North

WEATEER CONDITIONS: > sunny, mild

> ~700

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID (if applicable):



DESCRIPTION: > Close-up view of Soil sample S5 collected

from the western edge of the landfill in the

PIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Metro DSPL SYST INC PAGE - OF 22

U.S. EPA ID: 14) 98060720/TDD: FOS-8912-090 PAN: FILOY17513

DATE: > 5/8/91

TIME: > 14:12

DIRECTION OF PHOTOGRAPH: > North

VEATEER CONDITIONS: > Sunny, mild

> -270

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID (if applicable):



DESCRIPTION: > Perspective view of soil sample SS.

DATE: >5/8/91

TIME: > 14:12

DIRECTION OF PHOTOGRAPH: > North east

VEATHER CONDITIONS: > Sunny, mill

PHOTOGRAPHED BY: > 13elmonte

SAMPLE ID (if applicable):



DESCRIPTION: > Perspective view of wetlands Northeast > d 55

recycled paper

SITE NAME: Metro DSPL SYST INC PAGE 7 OF 22

U.S. EPA ID: 14) 98060720/TDO: FOS-8912-090 PAN: FILOY,75R

DATE: >5/8/91

TIME: > 13:04

DIRECTION OF PHOTOGRAPH: > North

VEATHER CONDITIONS: > sunny, mild >~700

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID (if applicable):



DESCRIPTION: > Checony view of Soil Sample S4, > Collected at the wetland/landfull interface

DATE: >5/8/91

TIME: > 13:0+

DIRECTION OF PHOTOGRAPH: > Northwest

VEATHER CONDITIONS: > Sunny, Mild ~700

PHOTOGRAPHED BY:

SAMPLE ID (if applicable): 56



> 56.

SITE NAME: Metro DSPL SYST INC PAGE 8 OF 22

U.S. EPA ID: 14) 98060720/TDO: FOS-8912-090 PAM: FILOY,75B

DATE: > 5/8/91

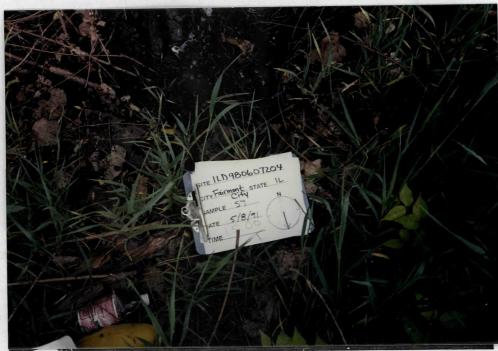
TIHE: > 15:15

DIRECTION OF PHOTOGRAPH: > South

VEATHER CONDITIONS: > Myle, ~ 700

PHOTOGRAPHED BY: > Bemonte

SAMPLE ID (if applicable):



DESCRIPTION: > Close-up vino of sediment Sample 57, > Collected between the randfill and Highway 40.

DATE: >5/8/91

TIME: > 15:15

DIRECTION OF PHOTOGRAPH: > South

VEATHER CONDITIONS: > Mil ~ 700

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID (if applicable):



DESCRIPTION: > Perspective view of Sediment Sample

> S7.

SITE NAME: Metro DSPL SYST INIC PAGE 9 OF 22

U.S. EPA ID: 14) 98060720/TDD: FOS-8912-090 PAN: FILCY,75B

DATE: > 5/8/91

TIHE: > \ 8:15

DIRECTION OF PHOTOGRAPH: > West

VEATHER CONDITIONS: > Mild ~ 70"

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID (if applicable):



DESCRIPTION: > Close-up view of 58, the pointful > bechanged, collected from a wooded area east of

DATE: > 5/8/91

TIME: > 19:15

DIRECTION OF PHOTOGRAPH: > West

VEATHER CONDITIONS: > Mild ~700

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID (if applicable):



DESCRIPTION: > Perspective view of S8, the jotential

> beckground Sample.

SITE NAME: MET-0 DSPL SIST INIC PAGE 16 OF 22

U.S. EPA ID: 12, 98060720/TDO: FOS-8912-090 PAN: FILOY175B

DATE: > 5/8/4.

TIME: > 16 CC

DIRECTION OF PHOTOGRAPH:

VEATHER
CONDITIONS:
> Hill, ~ 70°

>

PHOTOGRAPHED BY:

SAMPLE ID

(if applicable):
>LWI / Dup



> LWI Collecte at -e Southwest corner of

the trans

DATE: >5/8/91

TIME: > 16:00

DIRECTION OF PHOTOGRAPH:
> Noth

VEATHER
CONDITIONS:
> Mild, ~70'

>

PHOTOGRAPHED BY:

SAMPLE ID (if applicable): > _______



DESCRIPTION: > Cospertive view of leachate wey

> LWI

FIELD PETTOGRAFEY LOG SEEET

SITE NAME: Metro DSPL SYST INIC PAGE! OF 22

U.S. EPA ID: 14) 98060720/TDD: FC5-8912-090 PAN: FILOY,75B

DATE: > 5/8/91

TIHE: > 6:00

DIRECTION OF PHOTOGRAPH: > Noineast

WEATEER CONDITIONS: > M:16,270°

PHOTOGRAPHED BY: > B= monte

SAMPLE ID (if applicable): > LWI / Dur



DESCRIPTION: > Perspective vui = + Lenchate well, LWI. > Extreme vemp to ISS & How 70 in bringround.

DATE: > 5/8/91

TIME: >16:45

DIRECTION OF PHOTOGRAPH: > No.th

WEATEER CONDITIONS: > Mild, ~70°

PHOTOGRAPHED BY: > 13 = Imonte

SAMPLE ID (if applicable): > Luz/MSD



DESCRIPTION: > Close-up voi c' leachale well, LWZ, collected on the east side of

SITE NAME: Metro DSPL SYST INIC PAGE /2 OF 22

U.S. EPA ID: 140 980607204TDO: FOS-8912-090 PAN: FILCY175B

DATE: > 5/8/91

TIME: > 6:45

DIRECTION OF FEOTOGRAPH: > No.th

TEATHER CONDITIONS: > Mile, ~70'

FEOTOGRAPHED BY: > Bemonte

SAMPLE ID (if applicable): > LWZ/450

DESCRIPTION: > Perspective view of LWZ, located on the

> Southwest corner of the fill area.

DATE: > 5/8/91

TIME: > 16:45

DIRECTION OF PHOTOGRAPH: > South

VEATHER CONDITIONS: > Mill , ~70.

PHOTOGRAPHED BY: > Be monte

SAMPLE ID (if applicable): > LLUZ/MSD



Perspective view of leachate well DESCRIPTION: > Railroad tracks in bedeground. > (W2,

SITE NAME: Metro DSFL SYST INC PAGE 13 OF 22

U.S. EPA ID: 14) 980607204700: FOS-8912-090 PAN: FILO4175R

DATE: > 5/= 91

TIHE: > 17:30

DIRECTION OF PHOTOGRAPH: > worst

VEATHER CONDITIONS: > Over cas-

smild midter

PHOTOGRAPHED BY: > Belmont

SAMPLE ID (if applicable): > Mw1/Dup



DESCRIPTION: > Closery view of monitoring well sample,

> Mul. Mul was alletted on the berm in the

DATE: > 5/4/41

TIME: > 1.30

DIRECTION OF PHOTOGRAPH: > wes=

WEATHER CONDITIONS: > overest mill.

> mid-615

PHOTOGRAPHED BY: > Relimente

SAMPLE ID (if applicable): > MWI/Dus

DESCRIPTION: > PERSpective VIW of monitoring > MW3 is left of HWI.

SITE NAME: Metro DSPL SYST INC _ PAGE / OF 22

U.S. EPA ID: 14) 98060720/TDD: FOS-8912-090 PAN: FILOY1753

DATE: > 5/9/91

TIME: > 10: 20

DIRECTION OF PHOTOGRAPH:

VEATHER
CONDITIONS:

> crevcast, mild

> mid-605

PHOTOGRAPHED BY:
> Belmonte

SAMPLE ID
(if applicable):
> Mwz/HSD

STE_LLN980607204
CITY THINTIPS, STATE_LL
SAMPLE MM3/INSD_N
DATE 5_9-9-11
TIME [0] 20

DESCRIPTION: > Close-up view of MWZ/MSD collected

Southwest of the landfill.

DATE: > 5/9/91

TIME: > 10-20

DIRECTION OF PHOTOGRAPH:

VEATHER
CONDITIONS:
> Overcent, mild

> mid-Lec's

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID
(if applicable):
>Mwz/MsD



DESCRIPTION: > Perspective view of Mw2/MSD. Pailroad

> track on the horizon.

FIELD PESTOGRAPHY LOG SHEET

SITE NAME: Metro DSPL SYST INIC

PAGE 15 OF 22

U.S. EPA ID: 14) 98060720/TDD: FOS-8912-090 PAN: FILOY,75B

DATE: > 5/9/91

TIME: > 0: 20

DIRECTION OF PHOTOGRAPH:

> South west

VEATEER
CONDITIONS:
> CULLIZE + mild

> mid- lebs

PHOTOGRAPHED BY:

SAMPLE ID
(if applicable):
> Muz HJD



DESCRIPTION: > Perspective view of MWZ/MSD. showing the > Southeast corner of the landfill.

DATE: > = /9/91

TIME: > 2:30

DIRECTION OF PHOTOGRAPH: > \wedge e4=

VEATEER
CONDITIONS:
> OUTLIEST, MILE

> mid-lios

PHOTOGRAPHED BY:
> Belmonte

SAMPLE ID (if applicable): > Nw3



DESCRIPTION: > Closer-up 1: wo of Mw3 calleded in >- the southeast corner of the site.

SITE NAME: Metro DSPL SYST INC PAGE 16 OF 22

U.S. EPA ID: 14) 98060720/TDD: FOS-8912-090 PAN: FILO417513

DATE: > 5/9/4;

TIME: > 12:50

DIRECTION OF PHOTOGRAPH: > lier

VEATEER CONDITIONS: >= restant mild

> 1-1-1.00

PHOTOGRAPHED BY: > Belmont

SAMPLE ID (if applicable): > Hwi?



DESCRIPTION: > Perspecture view of MW3. MWI

> The right.

DATE: > 5/9/91

TIME: > 13:35

DIRECTION OF PEOTOGRAPH: > Koch

VEATEER CONDITIONS: somewest, mild

> mid-ledi

PEOTOGRAPHED BY: > belmonte

SAMPLE ID (if applicable): SWH /HW3



DESCRIPTION: > Perspective vine of MWI and MWZ showing > the Huy 203 bridge in the bedignound.

FIELD FEOTOGRAPHY LOG SHEET

SITE NAME: METO DSPL SYST INC PAGE 17 OF 22

U.S. EPA ID: 14) 98060720/TDO: FOS-8912-090 PAN: FILOY,75B

DATE: > 5/9/91

TIME: > 12:00

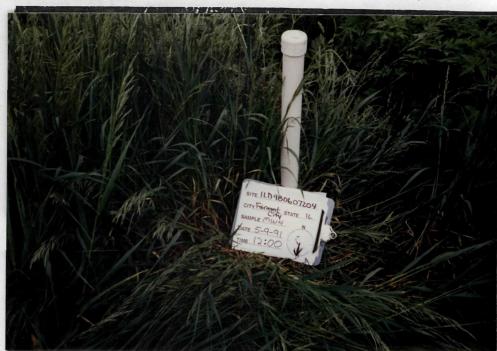
DIRECTION OF PHOTOGRAPH: > south

VEATHER CONDITIONS: > overest, mild

> mic-lecs

PHOTOGRAPHED BY: > Belmonte

SAMPLE ID (if applicable): > Mw+



DESCRIPTION: > Close-up vais of monitoring well sample New 4 celeted in the northeast corner of the site.

DATE: > 5/9/11

TIME: > 12:00

DIRECTION OF PHOTOGRAPH: > south

WEATHER CONDITIONS: > overcest, mild

> niic-Gor

PHOTOGRAPHED BY: > Belimont

SAMPLE ID (if applicable): > MWH

DESCRIPTION: > Perspective viv of HWH Showing



SITE NAME: METO DSPL SYST INC PAGE 18 OF 22

U.S. EPA ID: 14) 980607204TDO: FOS-8912-090 PAN: FILO417513

DATE: > 5/9/91

TIME: > 3:50

DIRECTION OF PHOTOGRAPH: > south

VEATHER CONDITIONS: > evercest,

> mild mid - 601

PHOTOGRAPHED BY: > Belmont

SAMPLE ID (if applicable): FIM <



DESCRIPTION: > Ch-site well 5-145 is broken off at

> it base.

DATE: >5 9/91

TIME: > .3:58

DIRECTION OF PHOTOGRAPH: > west

WEATHER CONDITIONS: > overcat, mild

> Mid - 1005.

PHOTOGRAPHED BY: > Belinente

SAMPLE ID (if applicable):



DESCRIPTION: > Abondonned gas station adjacent to the worten

> bender of the landfill on Collinsville Road

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: IMETRO: DSPL SYST INC.

PAGE 19 OF 22

U.S. EPA ID: ILD TEOLOGIZOY TDD: FOS-ENIZ-COD

PAN: FILOYINSB



DATE: >5/9/11 TIME: >10:55 DIRECTION OF PHOTOGRAPH: > East to PHOTOGRAPHED BY: > Belmoute

VEATHER CONDITIONS: > Over(2st, mild, mid-60) SAMPLE ID (if applicable): > HA.

DESCRIPTION: > Per spectrup view of southern border of the Site.

SITE NAME: Metro DSPL SYST, INC

PAGE 20 OF 22

U.S. EPA ID: 1-0980607204

TDD: F-05-8912-090

PAN: FILOYITSB



DATE: >5/9/91	TIME: >10:58	DIRECTION OF PHOTOGRAPH	N/NW P	HOTOGRAPHED BY: > Belmon	ũ .
WEATHER CONDITIONS	> Overcost	wild, mid-60,		SAMPLE ID (if applicable):	> N/A
DESCRIPTION: > Pe	repecting vin	w of southern	border c	of the site.	

SITE NAME: METRO DSPL SYST INC.

PAGE Z OP 22

U.S. EPA ID: 1LD 980607204

TDD: FOS- 8912-090

PANI FILOYITSB



DATE: > 5/9/91 TIME: > 14:00 DIRECTION OF PHOTOGRAPH: > South PHOTOGRAPHED BY: > Belmente

VEATHER CONDITIONS: > Oveness, Mild, mid-605 SAMPLE ID (If applicable): > N/A

DESCRIPTION: > Prospertive vivo of landfill and wetlands taken from Huy 203

cm the sites north boundary.

SITE NAME: METRO : DSPL SYST INC.

PAGE LLOP LL

U.S. EPA ID: 140980607204

TOD: FOS- 8912-090

PAN: FILOYITSB



DATE: >5/9/91 TIME: >13:55 DIRECTION OF PHOTOGRAPH: West PHOTOGRAPHED BY: > Be monte

VEATHER CONDITIONS: > C verest, mild, mid-60s SAMPLE ID (if applicable): > M/A.

DESCRIPTION: > Perspectup vive of abendoned gas Station and motel. Photo talen

north of Collingville 12d.

APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND
TARGET ANALYTE LIST
QUANTITATION/DETECTION LIMITS

ROUTINE ANALYTICAL SERVICES CONTRACT REQUIRED DETECTION AND QUANTITATION LIHITS

Contract Laboratory Program Target Compound List Quantitation Limits

COHPOUND	CAS #	VATER	SOIL SEDIHENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	. 75-34-3		5
1,2-dichloroethene (total)		5 5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (HEK)	78-93-3	10	10
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	
cis-1,3-dichloropropene	10061-01-5		5
Trichloroethene	79-01-6	5 5 5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5 · 5	5
Benzen e	71-43-2	· 5	5
Trans-1,3-dichloropropene	10061-02-6	5	5 5 5 5 5 5
Bromoform	75-25-2	5	5
4-Hethyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Tolene	108-88-3	5	
1,1,2,2-tetrachloroethane	79-34-5	5	5 5 5 5
Chlorobenzene	108-90-7	5 5 5	5
Ethyl benzene	100-41-4		5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Table A Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

			SOIL SEDIHENT
COHPOUND	CAS #	VATER	SLUDGE
Di	100 05 2	10/!	220 /٧
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Hethylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzen e	98-95 -3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Bexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
·	100-02-7	- 50	1600
4-Nitrophenol Dibenzofuran	132-64-9	10	
The state of the s	121-14-2	10	330
2,4-Dinitrotoluene			330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

			SOIL SLUDGE
COHPOUND	CAS #	VATER	SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

			SOIL SEDIHENT
COHPOUND	CAS #	VATER	SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	, 309-00-2	0.05	8
Reptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin .	72-20-8	0.10	16
Endosulfan II	3321 3 -65-9	0.10	16
4,4'-DOD	72-54-8	0.10	16
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

Table A
(Cont.)

CONTRACT LABORATORY PROGRAM
TARGET ANALYTE LIST
INORGANIC DETECTION LIMITS

Compound	Procedure	Water (µg/L)	Soil Sediment Sludge (mg/kg)
aluminum	ICP	200	40
antimony	furnace	60	2.4
arsenic	furnace	10	2
barium	ICP	200	40
beryllium	ICP	5	1
cadmium	ICP	5	1
calcium	ICP	5,000	1,000
chromium	ICP	10	2
cobalt	ICP	50	10
copper	ICP	25	5
iron	ICP	100	20
lead	furnace	3	1
magnesium	ICP	5,000	1,000
nanganese	ICP	15	3
mercury	cold vapor	0.2	0.008
nickel	ICP	40	8
potassium	ICP	5,000	1,000
selenium	furnace	5	1
silver	ICP	10	2
sodium	ICP	5,000	1,000
thallium	furnace	10	2
tin	ICP	40	8
vanadium	ICP	50	10
zinc	ICP	20	4
cyanide	color	10	2

APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

FILE ... ALL FL. INCH. ... IFO M.... IC FLEST LINDS OR LITE ITE DEPARTMENT-OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 525 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

Tan Raw

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well			
	a. Dug 1	Bored Hol	e Diamin	. Depthft.
	Curb materia	21 Bu	ried Slab: Yes_	No
	b. Driven	Drive Pipe	Diemin.	Depthft.
	c. Drilled X	Finished I	n Drift_X	In Rock
		Gravel Pac		
,	d. Grout:	(XIND)	PROM (PL.)	TO (F1.)
		Ready mix		30
		VERRA WITY	M	N
				<u> </u>
2.	Distance to Ne	orest:	•	
	Building		Seepage Tile Fie	1d
	Cess Pool			Iron)
	Privy			
	Septic Tank		-	
	Leaching Pit_			
3.				8 No_X
4.	Date well comp	leted	Nov. 198	3
5.	Permanent Pum	p Installed? Yes	Dotel1/2	3/83 No
	Manufacturer	Lavne Tyr	Trbn Local	lon
	Capacity 150	Ogpm. Depth of	Setting	60FL
6.	Wesi Top Sealer	1? Yes X No.	ТуреС	ement
7.	Pitless Adapter	Installed? Ye	sNo_X	
	Manufacturer_		Model Numb	er
	How attached to	casing?		·
8.	Well Disinfecte	d? Yes_X	_No	•
9.	Pump and Equip	ment Disinfected	d? Yes_X	No
10.		Sizegal.	Тур•	
	Location			
11.	Water Sample St	bmitted? Yes.	No	<u> </u>
RE	MARKS:			
			/*) •	/
				1

GEOLOGICAL	AND	WATER	SURVEYS	WELL	RECORD
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10. Property	owner Pfizer In	C. Well No.	15_	<u> </u>
Address	East St. Louis	Illinois		
	John Ruester		2-002	045
11. Permit No	. 109867	Date10/7	/83	
	Alluvial	_ 13. County_St_		
at depth.	80 to 115 ft.	Sec. 8.7/2		-
14. Screen:	Diem18_in.	Twp. 2N		
Length: _	35 ft. Slot_#6	Rgo. <u>_9W</u>		
15. Casing a	nd Liper Pipe	Elev	7	

Diem. (in.)	Kind and Weight	From (FL)	To (Pt.)	LOCATION IN
18	stainless	+2	80	SECTION PLAT
48	Carbon stl 0.375	0	1 30	400'N-1250E
•				Amoteria

- 16. Size Hole below cosing: 54 in.
- 17. Static level 30 ft. below easing top which is 2 ft. above ground level. Pumping level 43. 6ft. when pumping at 1500 gpm for 4 hours.

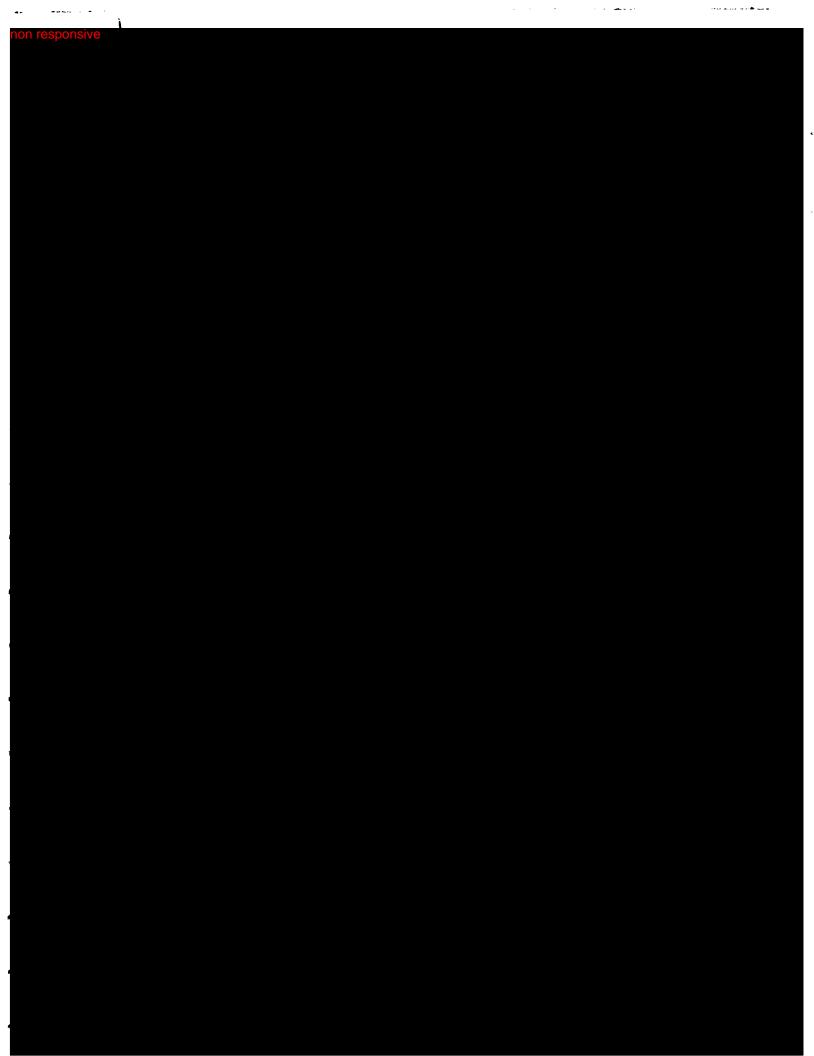
18. FORMATIONS PASSED THROUGH	THICKNESS	POTTON
Cinders	1	1
Rubble fill	5	6
Gray clay & brown clay	6	12
Fine brown sand	14	26
Gray fine to medium sand	49	75
Gray med. to coarse sand & grvl	15	90
Gray coarse sand & boulders	25.5	115.5
Shale	1	116.5
		**

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

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White Copy —
III, Dept. of P. Health
Yellow Copy — Will James
Blue Copy — Will James

FILL IN ALL PERTINENT INFORMATION REQUEST AND MAIL ORIGINAL TO STATE DE-PARTMENT OF PUBLIC HEALTH, ROOM 616, ST. & OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706, DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. GE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well a. Eug
	d. Ufbut: (KIND) FROM (Fix) TO (Fix)
2.	Distance to Nearest: Building Ft. Secrege Tile Field
	Building Ft. Secrage Tile Field Sewer (non Cast iron)
	Privy Sewer (Cast Iron)
	Septic Tank Barnyard
	Leoching Pit Manure Pile
3.	Is writer from this well to be used for human consumption?
	Porto well completed
4.	Date well completed
5.	Por anent Pump Installed? Yes No. 1
	Man-facturer Type Copecity gpm. Dopth of setting ft.
c	Well Top Seuled? You No.
	Pitless Adaptor Installed? Yes No No
8.	Well Disinfected? Yes No No
	Wate: Sample Submitted? Yes No
RE	MARKS:
••	
	PH 4,065 768

am. (in.)	Kind and Walght	From (Ft.)	To (Vt.)	ì	SHOW
64	16		63	1 470	CATION IN TION PLATE
				~ ~	. ,-
gpm for	DRIATIONS PARED THROUGH			umpin	g at 10
gpm for	_10 hours.			umpin	CEPTILOS HOTTOM
gpm for				umpin	DEPTHO
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GEOLOGICAL AND WATER SURVEYS WELL PECORD

1. Type of Well

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUE D AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

	a. Dug 8	lored	Hole Dlam	in. Depth[t.
			Burled Slab: Yes	
	h Driven	Delva	Pine Diam II	n Denth ff
	c. Drilled _ v	Finish	ed in Drift	. In Rock
	Tubulæ	Gravel	Packed	. In Rock
	d. Grout:			7
		(KIND)	PROM (FI.)	70 (FL)
	- 3	Prill Codti	195 0	.15
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				•
	•	·	· · · · · · · · · · · · · · · · · · ·	
2.	Distance to Nea			
	Building(2			'ield
	Cess Pool		•	it Iron)
	Privy	<u> </u>	Sewer (Cast Iro	n)
	Septic Tank	<u> </u>	Bornyard	
	Leaching Pit		Manure Pile	<u> </u>
3.	Well furnishes v	vater for hum	on consumption?	YesNo
4.	Date well compl	leted	<u>5-15-85</u>	
5.	Permanent Pum	Installed?	YesDate	No
	Manufacturer		TypeLoc	ation
	Capacity	gom. Depth	of Setting	Ft.
6.	Well Top Segled	12 Yes	No Tune 3	tecl CAp Fi.
7.	Pitless Adopter	Installed?	YesNo.	
			Model Nu	
	How attached to	casina?	model ind	
8.	Well Disinfected	17 Yes V	No	
9.	Pump and Equip	ment Dialate	eted? Yes	No. I
Ō,	Pressure Tank	Size	al. Type	
-	Location			
1.			YesNo	V
	MARKS:			
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10.	Propert	y owner Bluff	View	FARM	7	Wall No		1
	Addres	8410 Force	1/ 13/	Id. Ch	<u>۔</u> 5،	syville	·I	1. 632.33
•	Driller	Daniel K. Me	Cocel	Lice	ns	e No. 🕰	72-	006766
11.	Permit	No//6 77/		Date .		<u>3- /2</u>	<u>-655</u>	
12.		rom SAND 1 Gr	nrel	13. Co	U.	11y _SY	44	<u> </u>
	Screen: Length	b 55 to 1/8 ft. Diam. 12 in. 10 ft. Slot and Liner Pipe	3/32		10	14.4 2 N 9 W		7
	e. (in.)	Rind and Wolgh		From (Ft.	``	To (F1.)	, ' _	######################################
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18.	Top 5 Brown Fine	DOMATIONS PASSED	THROUG		(t.			
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18.	Top 5 Brown Fine	COMMATIONS PASSED	THROUG			THIC		
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18.	Top 5 Brown Fine	COMMATIONS PASSED	THROUG	2011		THIC		10' 10' 10'
18.	Top 5 Brown Fine	COMMATIONS PASSED	THROUG	2011		THIC		10' 10' 10'
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	Fine Can	PORMATIONS PASSED OI OI SIND SC SIND	n. L'	IL De	RY	THIC	KHE88	10' 4.' 10' 40' 118'

INSTRUCTIONS TO DE ER

White Copy —
Ill, Dep L of Public Health
Yellow Copy — Well Centractor
Illus Copy — Well Owner

1. Tipe of Well

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

••	a Dug I	Bored_X Ho	le Diam. <u>36</u> in	. Depth_70_ft.
	Curb materia	. Bv	itled Slab: Yes.	NoX_
				Depthft.
				In Rock
		Gravel Pa	cked <u>X</u> .	
	d., Grout:	(KIND)	PROM (FL.)	TO (Ft.)
	,	gravel	70	10
		concrete	10	0
2	Distance to Ne	man!		
A 1	Building ok		Seepage Tile Fie	aa ok
	Cess Pool Ok		Sewer (non Cast	
	Privy	ok	Sewer (Cast Iron	
	PrivySeptic Tank	ok	Barnvard :	_ok
	Leaching Pit_	υk	Manure Pile	ok
3.	Well furnishes	water for human	consumption? Y	es_X No
4.			ov. 6. 1980	
5.	Permanent Pum	p Installed? Ye	Date	NoX_
	Manufacturer	Ту	peLoca	tion
	Capacity	_gpm. Depth of	Setting	Ft.
	Well Top Sente	17 Yes_X_No	Type _001	norete cap
7.			es No	
	Manufacturer		Model Num	
•	Hall Districute	o casingr	No	
			ed? Yes	
			Туре	
			- /	· , ,
11.	Water Sample S	ubmitted? Yes	No	X
RE	MARKS:		•	
	•			<i>:</i>

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Farmers Energy Corp. Well No.

	Addres	Box #176, Natio	nal City,	III.		
	Driller	Clarence Kohnen	Licens	No. 10)2 – 30	}
11.	Permit	No. #96992	Date	ot. 20	1, 19	980
12.	Water !	rom sand & gravel	13. Coun	ly_St	Cle	ir
	at dent	th 32 to 70 ft.	Sec	6.60		
14.	Screen	: Dienin.		2 N		
		1:ft. Slot	Roe.	9 W	` ├─	┞╼┞╼╞
			Elev	<u> </u>	` 	
		g and Liner Pipe				
01	m. (In.)	Rind and Veight	Prom (P1.)	To (PL)	Lo	SHOT CATION IN
	36	concrete pipe	0+1	70_	88C1	TION PLATS
Γ					,,,,,	, , , , ,
		•	1			
16.	Stee H	ole below casing:	la.	······································	ı	
		levelft. below car		h to		4 1.
•••		ground level. Pumping le				
		or hours.		warea pe		
_						
18.	1	FORMATIONS PASSED THROU	JOH	THICK	NESS	DEPTH OF
		top soil brown		2		2
		dark clay		4		6
		dark olay - sa	nđ	2	4	30
		dark gray sand	- fine	5		35
		gray sand & gr		3	1	66
-		gray olay - sa	nd & grave	1 2		68
		redish gray sa	nd & grave	1 2		70
~				- - - - - - - - - - 		
_						
(0	INTENO	JB ON SKPARATE SHEET I	F NEGEREARY	7		
610	NED _	Marcice B	freen by	mn /	(2)-	3.80
210	MED -		144 16 DI	نکسہ خا تا		
		11	· / _			

11:111 4:045 1/74 - KNB-1 WELL LOG #

TRUCTIONS TO DRILLERS

Write Copy -III. Dept. of Public Health Yellow Copy - Well Centractor Blue Copy - Well Owner

FILL IN ALL PERTINENT INFURMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH' PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well
	a. Dug Bored Hole Diam. 30 in. Depth 29 ft.
	Curb material Burled Slab: YesNo
	b. Driven . Drive Pipe Diam. in. Depthft.
	c. Drilled Finished in Drift In Rock
	Tubular Gravel Packed
	d Cmut:
	(KIND) PROM (PL) TO (PL)
2.	Distance to Nearest:
	Building Ft. Seepage Tile Field
	Cess Pool Sewer (non Cast Iron)
	Privy Sewer (Cast iron)
	Septic Tank Barnyard
	Leaching Pit Manure Pile
3.	Well furnishes water for human consumption? YesNo
4.	
5.	Permanent Pump Installed? YesDateNo
	ManufacturerTypeLocation
	Capacityapm. Depth of SettingFt.
6.	Well Top Sealed? YesType
7.	Pitless Adapter Installed? Yes No
	ManufacturerModel Number
	How attached to casing?
8.	Well Disinfected? Yes No
	Pump and Equipment Disinfected? YesNo
10.	
	Location
11.	Water Sample Submitted? YesNo
RE	MARKS:
	• · ·

on respon	a a iva			ECO	•
	isive				
			- 454		SHOW
30	Concilete	From (Ft.)	To (Pt.)		ATION IN
	COPTICE	130		NE	÷NE / ∷
					ń.
	lole below casing:			•	
above	levelft. below cas ground level. Pumping leverhours.				atf
. 1	PORMATIONS PASSED THROU	СН	THICK	NESS	DEPTH OF
					••
		c/4.	3	,	•
		c / pay	2	,	
		c'm	'چي	7	
		clay		7	
		clay	2	?	
		c/m/	. 29	,	
		c'ny		7	
CONTINU	JE ON SEPARATE SHEET IF	NECESSARY		5	

	113670
City National City	County 5t. Clair My 504 1
Section 6. 1d Twp. No.	2N Range 9W
Location (in feet from section corner)	550 N, 350 Wof SE COF. VOl.
Owner Stepheng Truck Stop	Authority
Contractor Hard Warzon Well	11 Dulling E. St. Lauis, Illinois
Date drilled	Elev. above sea level top of well 405 + TH
Depth 85	
Log Sand	146 must
Were drill cuttings saved	Where filed
Size hole If reduced, where	and how much
Casing record	•
Distance to water when not pumping	Distance to water is
feet after pumping at	G. P. M. forhours.
Reference point for shove messurements	Could not measure water live
Type of pump	
Length of cylinder	Length of suction pipe below cylinder
Length stroke	Speed
Hours used per day	Type of power
Rating of motor	Rating of pump in G. P. M.
	vater level
(2) Pumping level No	(3) Discharge
(4) Influence on other wells	No .
Temperature of water Sample From P	Was water sample collected <u>Yes</u>
Date Dec 14, 1967	Was water sample collected <u>Jes</u> Effect of water on meters, hot =ater
coils, etc.	
Date of Analysis	Analysis No
	Recorder W. H. Beber
•	2 11.00